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CUYAMACA COLLEGE CATALOG

Cuyamaca College

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Lu Tri Vi Huynh

Chancellor

Lynn Ceresino Neault, Ed.D.

Cuyamaca College President

Jessica Robinson, Ed.D.

Accreditation and Affiliations

Cuyamaca College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, 428 J Street, Suite 400, Sacramento, CA 95814, (415) 506-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. Additional information about accreditation, including the filing of complaints against member institutions, can be found at www.accjc.org. The College is approved for the education of veterans under the various United States public laws and the California veteran enactments, and is approved by the Bureau of Immigration and Naturalization for foreign student attendance under education visas. Cuyamaca College has been evaluated by the National Automotive Technicians Education Foundation in the areas of instruction, course of study, facilities and equipment, and meets the standards of quality for the training of automobile technicians at the level of Master Automobile Service Technology. The Cuyamaca Paralegal Studies program was approved by the American Bar Association in 2002. Appropriate courses of study at Cuyamaca College are fully accepted for transfer by the University of California, the California State University system, and private four-year colleges and universities.

Disclaimer

The Grossmont-Cuyamaca Community College District and Cuyamaca College have made every reasonable effort to determine that everything stated in this catalog is accurate. Courses and programs offered, fees charged, together with other matters contained herein, are subject to change without notice by the administration of the Grossmont-Cuyamaca Community College District or Cuyamaca College for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District and the College. The District and the College further reserve the right to add, amend, or repeal any of their rules, regulations, policies and procedures.

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President's Message



Dear Students,

Welcome to Cuyamaca College! As one of the two colleges in the Grossmont-Cuyamaca Community College District, it is our pleasure to serve San Diego's East County region.

Our faculty, classified professionals, and administration take pride in providing a personalized experience for every student. Collectively, we are committed to your success and helping you to attain your goals.

In this catalog you will find information that will help you to make decisions about your academic and career path. I encourage you to meet with your counselor early to develop a plan that will help you to meet your goals quickly and with all the support you need. At Cuyamaca College, we pride ourselves on providing you direct access to math and English courses that accelerate your time to completion. We know that completing these courses early in your academic career leads to success.

Cuyamaca College has been changing the lives of our students since we first opened our doors in the fall of 1978. The faculty, classified professionals, and administration are deeply committed to the transformational benefit of higher education. Whether you are planning to transfer to a university, seeking a certificate, or looking to update or learn new skills for a job change, we are here for you.

Dr. Jessica Robinson, MSW
President



Academic Calendar

Fall 2026

Event	Date
Application Deadline (for registration appointment time)	April 17
Registration	May 4 - August 23
Payment Deadline for Registration Fees	Refer to Class Schedule Enrollment Information
Professional Development - Organizational Meetings	August 17 - 21
Full Semester/First 8-Week Classes Begin	**August 24**
Program Adjustment (Add/Drop Period Full Semester Classes)	August 24 - September 6
Last Day to Drop Full Semester Classes without a "W"	September 6
Last Day to Apply for Refund for Full Semester Classes	September 6
Holiday (Labor Day)[1]	September 7
Census Day (Full Semester Classes)	September 8
National Voter Registration Day[3]	September 15
Last Day to Apply for Fall 2026 Degree/Certificate	October 9
Last Day to Apply for P/NP (First 8-Week Session)	Last Day of Instruction
First 8-Week Session Ends	October 17
Second 8-Week Session Begins	October 19
First 8-Week Session Instructor Grade Deadline	October 22
Holiday (Veterans Day)[1]	November 11
Last Day to Drop Full Semester Classes (with "W")	November 21
Thanksgiving Recess, no classes	November 23 - 25
Holiday (Thanksgiving)[1,2]	November 26 - 27
Last Day to Apply for P/NP	Last Day of Instruction
End of Second 8-Week Session & Full Semester Classes	December 21
Fall Semester Ends	December 21
Winter Recess (for students)	December 22 - January 31
Instructor Grade Deadline	December 23
College and District Offices Closed[1]	December 24 - January 3

1 College and District Offices Closed.
2 No classes on Saturday after the Friday holiday.
3 See additional voter information at General Information (p. 14).

Spring 2027

Event	Date
Application Deadline (for registration appointment time)	October 23
Registration	November 9 - January 31
Payment Deadline for Registration Fees	Refer to Class Schedule Enrollment Information
Intersession 2026	January 4 - 30
Holiday (Dr. Martin Luther King, Jr. Day)[1]	January 18
Professional Development - Organizational Meetings	January 25 - 29
Full Semester/First 8-Week Classes Begin	**February 1**
Program Adjustment (Add/Drop Period Full Semester Classes)	February 1 - 14
Holiday (Lincoln Day)[1,2]	February 12
Last Day to Drop Full Semester Classes without a "W"	February 14
Last Day to Apply for Refund for Full Semester Classes	February 14
Holiday (Washington Day Observed)[1]	February 15
Census Day (Full Semester Classes)	February 16
Last Day to Apply for Spring 2027 Degree/Certificate	March 5
Last Day to Apply for P/NP (First 8-Week Session)	Last Day of Instruction
First 8-Week Session Ends	March 27
Spring Recess	March 29 - April 1
First 8-Week Session Instructor Grade Deadline	April 1
Spring Recess Holiday[1,2,3]	April 2
Second 8-Week Session Begins	April 5
Last Day to Drop Full Semester Classes (with "W")	April 30
Last Day to Apply for P/NP	Last Day of Instruction
End of Second 8-Week Session & Full Semester Classes	May 29
Spring Semester Ends	May 29
Holiday (Memorial Day)[1]	May 31
Grossmont Commencement	June 2
Cuyamaca Commencement	June 3
Instructor Grade Deadline	June 3

1 College and District Offices Closed.
2 No classes on Saturday after the Friday holiday.
3 In recognition of Cesar Chavez.

Dates listed are subject to change. Please see https://www.cuyamaca.edu/academics/class-schedules-catalog-and-calendars/index.php (https://www.cuyamaca.edu/academics/class-schedules-catalog-and-calendars/) for the most current calendar.

College and District Administration

Cuyamaca College Administration

Jessica Robinson, Ed.D., President

Erica Balakian, Vice President, Administrative Services

Jeanie Machado Tyler, Vice President, Instruction

Victoria Marrón, Ed.D., Vice President, Student Services

Brianna Hays, Senior Dean, Institutional Effectiveness, Success & Equity

Michael Navarre, Director, College & Community Relations

Jane Gazale, Dean, Arts, Humanities & Social Sciences (Art, American Sign Language, Communication, English, English as a Second Language, Ethnic Studies, History, Social and Behavioral Sciences, Humanities, Philosophy and Religious Studies, Performing Arts, World Languages)

Anthony Campbell, Dean, Athletics, Kinesiology & Health Education (Kinesiology/Fitness Center, Health Education)

Miguel Alvarez, Interim Dean, Career Education (Automotive Technology, Business and Professional Studies, Center for Water Studies, Child Development, CADD Technology & Surveying, CIS & Graphic Design, Environmental Health & Safety Management, Ornamental Horticulture)

Brieanna Cuellar, Dean, Counseling Services

Jessica Hurtado Soto, Dean, Learning & Technology Resources

Tammi Marshall, Ed.D., Dean, Math, Science & Engineering (Mathematical Sciences, Science/Engineering)

Lauren Vaknin, Ed.D., Dean, Student Engagement and Belonging

(Open), Dean, Student Success & Equity

Sade Burrell, Ed.D., Associate Dean, Student Services & Special Programs

Tashaurie Rogers, Director, Admissions & Records

(Open), Director, Campus Facilities, Operations & Maintenance

Rachel Andersen, Director, Financial Aid

Grossmont-Cuyamaca Community College District Administration

Lynn Ceresino Neault, Ed.D., Chancellor

Sahar Abushaban, Vice Chancellor, Business Services

Melissa Richerson, Vice Chancellor, Human Resources

Barbara Gallego, Associate Vice Chancellor, Educational Support Services

Angelo Pellegrini, Associate Vice Chancellor, Facilities Planning, Public Safety & Risk Management

Kerry Kilber Rebman, Associate Vice Chancellor, Technology

Ken Emmons, Sr. Director, Districtwide Facilities Planning, Development & Electrical Maintenance

Jennifer Fujimoto, Sr. Director, Fiscal Services

Katie Loftus-Rapp, Sr. Director, Purchasing & Contracts

Cynthia K. Nagura, Director, Community & Workforce Partnerships

Tony Hendricks, Director, Enterprise Systems

Katie Borts, Director, Human Resources

Steven Domingo, Director, Information Security

Lana Arabu, Director, Payroll

Jennifer Kearns, Director, Public Information, Government Relations & Community Relations

Nicole Conklin, Director, Public Safety

Sally Cox, Chief Executive Officer, Foundation for Grossmont & Cuyamaca Colleges

Dana Rivers, Director of Development, Foundation for Grossmont & Cuyamaca Colleges

Gabriela Alvarez, Administrative Director to the Chancellor & Governing Board Operations

Jane Kennington, Executive Director, Personnel Commission

Code of Ethics

Cuyamaca College, as a public community college, and in the fulfillment of its mission, embraces a code of conduct for students, faculty, classified professionals, and administrators. We recognize the value and dignity of each individual within the framework of the campus community.

We strive in all our affairs to:

- respect the opinions, values, and traditions of others,
- be responsible for our behavior,
- be honest, open and trustworthy,
- be fair and equitable in our treatment of others, and
- promote democratic principles, good citizenship, and the standards of academic freedom.

College History and Vision

History of the College

Upon its founding nearly forty years ago, the name Cuyamaca College was selected to honor the institution's historical roots and reflect its commitment to *communit*y and serving students in its unique East San Diego location. Decades later, that commitment to *community* is stronger than ever. Cuyamaca College is proud to actively promote equity and social justice by employing educational strategies that build upon the strengths of its diverse socio-cultural student population. From the beginning, the college has remained committed to establishing a pathway to social and economic mobility, offering a comprehensive range of degrees and certificates that provide diverse students in East San Diego with transfer, career, and lifelong learning opportunities.

Cuyamaca College, alongside its sister campus, Grossmont College, make up the Grossmont-Cuyamaca Community College District: A prestigious pair that have been collectively serving the community for over six decades.

Cuyamaca is not just part of the college name, it reflects the region's history and heritage. "Cuyamaca" is a word originating from the Kumeyaay language, meaning "Are you standing behind the rain clouds?" It is perhaps a reference to the location of the college at the base of Mt. Miguel, one of the highest points in San Diego County. San Diego is home to eighteen reservations, more than any other county in the country, and twelve reservations are of the Kumeyaay people. The name "Cuyamaca" is a tribute to the land upon which the campus is built, acknowledging and honoring the people who have lived in the area for thousands of years.

The Cuyamaca College campus is located in the East San Diego County community of Rancho San Diego, nestled in a suburb just outside the city of El Cajon on a verdant 165-acre site that was at one time a part of the Old Monte Vista Ranch.

The campus site was acquired by the Board of Trustees in September 1972 and the college officially opened in the fall of 1978, with 1,947 students and nine associate-degree programs. Its first president was Dr. Wallace F. Cohen.

Today, Cuyamaca serves over 13,000 students each year, and provides nearly 200 degrees and certificates that prepare students for both academic and career pathways.

The College Over Time

Thirty-eight students made up Cuyamaca College's first graduating class in May 1979. In the early '80s, the college's second president was named, Dr. Samuel Ciccati, and the construction of facilities housing two flagship programs began – Automotive Technology and Ornamental Horticulture. During Dr. Ciccati's tenure, the college also established what is today known as "The Grand Lawn." The lawn was the first green area established on campus, completed in partnership with the California Conservation Corps. True to its community roots, faculty and staff brought tools and worked between classes and on breaks to clear the area in preparation for the Corps crew to dig trenches for irrigation so the expansive lawn could be planted and enjoyed for generations.

In the years that followed, the community of Rancho San Diego grew significantly, and by fall 1988, Cuyamaca's enrollment had reached 3,600 students. This kick started nearly twenty years of campus expansion, that included the opening of the Learning Resource Center, a 30,000- square-foot, glass-covered building with distinctive architecture that houses the college library and other educational resources.

Soon thereafter, in the 1990s, the privately-funded Heritage of the Americas Museum opened, along with a new 20.3-acre physical education facility that included a fitness center, gym, tennis and volleyball courts, soccer and ball fields, and an Olympic track. In 1994, Rancho San Diego Parkway opened, paving the way for a new main entrance with better access to the campus.

That same year, Dr. Sherrill Amador also began her tenure as the third college president and helped to facilitate the Joint Powers Agreement between the college and area water districts to open the Water Conservation Garden on the campus – a must-visit for all home gardening and landscaping enthusiasts. The opening of a one-stop Student Services Center soon followed along with the unveiling of the Child Development Center. This whimsical facility serves as both a childcare facility for the campus and community, and a learning laboratory for students in Cuyamaca's Child Development Studies program.

Dr. Geraldine M. Perri took over the reins as the fourth college president in 2002, the same year that East County residents approved Prop. R, a $207 million bond to finance upgrades and new building construction at the District's two colleges. During this period of rapid growth, Prop. R transformed the campus into a high-tech learning magnet, bringing older facilities into the digital age and adding several new buildings: the Science and Technology Center (now the Science and Mathematics Building), the Student Center, the Business and Technology buildings, and a $45 million Communication Arts Center. Here, a well-appointed performing arts theater built to professional acoustical standards has become a major community asset as a high-demand site for community performances, assemblies, and business forums.

In 2011, Dr. Mark J. Zacovic was appointed as the fifth college president, and major construction funded by Prop R drew to a close with completion of Cuyamaca's Learning Resource Center expansion.

In November 2012, East County voters once again showed their support for the college district with the passage of Prop. V, a $398 million bond measure, and Cuyamaca College was one of three community colleges in the state to receive the inaugural Energy and Sustainability Award from the California Community College Board of Governors.

In 2013, the college was ranked among the nation's "best of the best" veteran-friendly schools by U.S. Veterans Magazine. The college was the only community college in San Diego County to earn the distinction, and it secured its spot again in 2014 as a repeat winner of the coveted award.

Dr. Julianna Barnes, who previously served Cuyamaca College as vice president of student services, returned in October 2015 to take the helm as the sixth president. Under her leadership, the college transformed its approach to placement and teaching math, English, and ESL, and to this day placement in these critical courses is based on high school transcripts and GPA, rather than a placement exam. Cuyamaca College was the first community college in California to embrace this approach, earning the college the prestigious Dr. John W. Rice Diversity & Equity Award, and a few years later, national recognition as the only California community college selected as a finalist for the 2019 *Examples of Excelenica* by Excelenica in Education.

That same year, the college opened one-of-a-kind water and wastewater training facilities in California, launching an innovative program in

collaboration with industry designed to train the next generation of water professionals.

From its inception, the college has proudly charted a transformative and innovative course to educating students. In 2020, that approach saw the college through a global pandemic, that galvanized the college's efforts to offer its instruction and operations online for the first time in its history. To this day, using innovation and technology, the college continues to support students with counseling services, basic rights support including food and housing, and quality instruction both in person, and online.

A seasoned student services leader, Dr. Jessica Robinson was named interim president of Cuyamaca College in 2022, and a year later, the college's seventh president and the first alumna to lead the college.

In 2022, Cuyamaca College was named "Best for Vets" by The Military Times and was recognized again for its efforts to support student success in English courses. As a Champion for Excelling in Equitable Course Placement in Campus-wide English Enrollment, Cuyamaca College provides every Latinx and Black student with access to and support in transfer-level English. Cuyamaca College went on to receive this award again in 2023.

The new heart of campus, the Student Services Building, officially opened its doors in February 2023. Funded by Prop V, the 36,374 square foot student-centered building serves as the front door to campus with a welcome center, drop off circle, courtyard and houses all student services.

True to its roots, Cuyamaca College continues today to serve diverse communities with personalized attention and a commitment to equity, excellence, and social justice, and remains unwavering in its mission to meet the comprehensive educational and workforce training needs of East County.

College Vision, Mission and Values

Cuyamaca College Vision Statement

Equity, Excellence, and Social Justice Through Education

Cuyamaca College Mission Statement

Cuyamaca College advances equity and social justice through student-centered and innovative approaches to education. We strive to create unique and meaningful learning experiences that build upon the strengths and socio-cultural experiences of our diverse student population and the communities we serve by providing programs that lead to certificates, degrees, transfer, career opportunities, and ultimately social and economic mobility.

Cuyamaca College Values

- **Student-centered:** Our students are our guides. We put students first and ensure the student experience is the foundation of our work by seeking student input and being responsive to student needs. We value and honor student involvement in institutional decision-making. We are committed to supporting student completion of educational goals and opportunities for lifelong learning while providing equitable and accessible distribution of resources.
- **Equity:** We work intentionally to honor and validate our students' and employees' lived experiences and cultural capital. Building upon the concepts of mutual trust, respect, and accountability, we work collaboratively to identify racial equity gaps in the context of intersectionality, and implement approaches and practices that create and sustain a welcoming, supportive, and race-conscious culture and environment.
- **Student Success:** We meet students where they are and work collaboratively to transform students' lives through their experiences inside and outside of the classroom. Our purpose is to foster students' continuous growth and promote economic and social mobility. We take responsibility for creating and maintaining safe, supportive, and equitable spaces where students can thrive.
- **Innovation:** We aim to break away from traditional structures and approaches in order to open up more inclusive pathways to serving and supporting our students, employees, and community. We value and promote risk-taking, interdisciplinary collaboration, and creativity among students and employees in order to continuously learn, grow, and improve our practices.
- **Excellence:** We validate and support students' and employees' strengths, socio-cultural experiences, and perpetual thirst for learning and continuous growth. We value and honor the talents of each member of our community.
- **Social Justice:** We acknowledge social injustices that impact historically marginalized communities and work together to make systemic changes to actively dismantle the racism and inequalities ingrained in the fabric of traditional institutions in order to safeguard human rights, increase access, promote participation, and further equity.
- **Community:** We proudly stand as a member of a larger collective and recognize that together we thrive. Cuyamaca College values relationships with the many diverse local communities that we serve, including indigenous, border, and international communities. We acknowledge our role within larger historical and economic contexts, including recognizing the responsibilities we have as an educational institution occupying unceded Kumeyaay land.
- **Mutual Respect**: We honor and value students' and employees' diverse talents and cultural capital by centering kindness, empathy, and compassion in every interaction. Recognizing that our words and actions impact our community, we seek continuous growth by holding each other accountable and practice equity-minded communication. We aim to create safe, supportive, and equitable spaces to ensure all voices and perspectives, especially those from historically marginalized or excluded groups, can participate in governance and authentically share their insights, experiences, and feedback without intimidation.

Educational Objectives

In order to maximize the opportunity for the development of individuals' personal, social and intellectual qualities, the college provides:

An ***instructional*** program:

- ***Transfer*** courses equivalent to the lower division curriculum of universities and colleges for students who plan to continue their education at a baccalaureate institution.
- ***Career and technical education*** courses to provide technical skills and knowledge for beginning employment, retraining and advancement, respond to local business and industry workforce development and workforce training directions.
- ***General education*** courses to broaden knowledge, skills, attitudes and values, to develop analytical ability and critical thinking, and to foster interest in lifelong learning in the educational, scientific and cultural fields essential for effective participation in a diverse and complex society.

- ***Developmental*** courses to assist inadequately prepared students to succeed in college course work.

A ***student services*** program:

- ***Academic, vocational and personal support*** services to provide students with sufficient opportunity to achieve educational success.
- ***Co-curricular activities*** to provide opportunities for personal development and social responsibility.

Learning program and services:

- Information literacy program designed to help students to find answers to questions, whether posed in the classroom or based on personal interests.
- Library collections where students have equitable access to current research information.
- Research guidance to support guided pathways initiatives.

A ***workforce development*** program:

- ***Education and training*** that contributes to continuous workforce improvement of regional business and industry and is in many cases grant funded.

Educational Philosophy

The Grossmont-Cuyamaca Community College District Governing Board believes that a community college should provide experiences that will greatly broaden students' educational opportunities and strengthen society's democratic institutions. Cuyamaca College is committed to provide an education through which students may create rewarding lives, productive for themselves and for society, based on an understanding of the relationship between the past, and the challenges of the present and the future.

Cuyamaca College accepts and is committed to the following premises:

- The democratic way of life allows each individual the personal freedom and initiative consistent with his/her responsibilities to other persons.
- The college recognizes the value of our diverse and individual needs, interests, and experiences, vary greatly.
- The maximum development of the personal, social, and intellectual qualities of each individual must be encouraged.
- The development and fulfillment of the individual and the development of the community are increasingly interdependent.

An educational environment dedicated to these philosophic premises will produce individuals prepared for life and citizenship in a complex, diverse society and global economy.

All segments of the Grossmont-Cuyamaca Community College District contribute to and participate in the development and success of our students.

Institutional Learning Outcomes

Students who complete a program of study leading to an associate degree or Certificate of Achievement at Cuyamaca College are expected to achieve the College's six Institutional Learning Outcomes (ILOs). ILOs highlight the knowledge, skills, abilities, and attitudes gained across general education and program-specific courses as well as through participation in co-curricular activities and student support services and programs (updated in 2026).

1. **Communication:** Students communicate clearly and effectively for varied purposes and audiences across diverse modes of expression (writing, speaking, visual, and digital).
2. **Quantitative Reasoning:** Students use quantitative information to evaluate simple and complex systems, draw justified conclusions, and make informed predictions and decisions.
3. **Critical Thinking & Problem Solving:** Students analyze claims and contexts, evaluate evidence, and synthesize perspectives to solve problems or reach reasoned judgments.
4. I**nformation Literacy:** Students locate, evaluate, and use information ethically to build knowledge and create original work.
5. **Engaging Diverse Perspectives & Inclusive Collaboration:** Students engage across differences with cultural humility, recognizing power, culture, and context to collaborate equitably and productively.
6. **Civic & Community Responsibility:** Students participate in civic and community contexts with awareness of their own positionality, fostering connection, and advancing equity and social justice.

Grossmont-Cuyamaca Community College District Vision, Mission, and Value Statements

Vision

Transforming lives through high-quality educational programs and services that meet the needs of the diverse communities we serve.

Mission

The Grossmont-Cuyamaca Community College District provides high-quality, equitable
learning opportunities to eastern San Diego County and beyond. We prepare students to
meet changing community and workforce needs, while advancing social justice and
economic mobility.

Values

- **Diversity** – Value and invite multiple perspectives in discussions and decision making; create space for historically excluded and marginalized voices to be amplified.
- **Equity** – Ensure students who have historically been marginalized and excluded have the opportunity to succeed in higher education by calling attention to patterns of inequity in student outcomes and actively working to eliminate equity gaps in student access and success. Commit to ensuring employees who have historically been marginalized and excluded have the opportunity to succeed in their profession.
- **Student-Centeredness** – Ensure the student experience is at the forefront of our decision-making in programs, services, processes, and policies, creating opportunities and clear pathways for students to reach their educational goals.
- **Creativity and Innovation** – Value the capacity for ingenuity and originality on our campuses and within our communities.
- **Pursuit of Excellence and Continuous Improvement** – Pursuit of Excellence and Continuous Improvement – Strive to continuously reflect, learn, and improve to ensure excellence in our programs, services, and operations.

- **Integrity** – Commit to acting and speaking truthfully and responsibly and holding ourselves and others accountable to this standard.
- **Mutual Respect** – Strive to build a community of inclusiveness, compassion, empathy, and learning marked by mutual respect and consideration of our differences.

Academic Freedom

Board Policy 4030

The Grossmont-Cuyamaca College District Governing Board shall promote public understanding and support of academic freedom for the implementation of the educational philosophy of Grossmont-Cuyamaca Community College District. Academic freedom is fundamental for the protection of the rights of the instructor in teaching, and of the student to freedom in learning. It carries with it duties correlative with rights.

1. Instructors are entitled to freedom in the classroom in discussing their subject, but they should be careful not to introduce into their teaching material that has no relation to their subject. The intent is not to discourage what is "controversial." Controversy is at the heart of the free academic inquiry that this entire policy is designed to foster. Instructors should avoid persistently intruding material that has no relation to their subject.
2. Instructors are citizens, members of a learned profession, and may be viewed by those outside of the District as representatives of the District. When they speak or write as citizens outside of their roles with the District, they should be free from institutional censorship or discipline, but their special position in the community imposes special obligations. As scholars and instructors, they should remember that the public might judge their profession and Grossmont-Cuyamaca Community College District by their utterances. Hence they should at all times be accurate, should exercise appropriate restraint, should show respect for the opinions of others, and should make every effort to indicate that they are not speaking for the District.
3. As colleagues, faculty members have obligations that derive from the code of ethics (adopted by both the Grossmont College Academic Senate [11/16/92] and the Cuyamaca College Academic Senate [4/6/95]). Faculty members should engage in inclusive conduct and should not discriminate against or harass colleagues and students. They respect and defend the free inquiry of associates. In the exchange of criticism and ideas, faculty members show due respect for the opinions of others. Such exchanges shall focus upon the substance and content rather than personal characteristics of individuals. Uncivil, intemperate, or abusive language and behavior (such as bullying, threatening, or disparaging remarks) is contrary to a productive and safe working and educational environment. This does not contravene academic freedom and free exchange of ideas and opinions, but requires accuracy, appropriate restraint, and respect for the professional expression of others, and an awareness of the potential impact on students.
4. Instructors are entitled to full freedom in academic research and publication, subject to the adequate performance of their other academic duties, but research and publication for pecuniary return should be based upon an understanding consistent with the collectively bargained agreement between the District and the exclusive bargaining representatives.

General Information

Air Force Reserve Officer Training Corps

The Air Force Reserve Officer Training Corps (AFROTC) is a three to four year program designed to equip students with leadership skills and commission officers for tomorrow's Air Force. Required coursework includes lectures, a leadership laboratory practical component, panel discussions, dialogues, problem solving, and physical training. All coursework is completed on site at or near SDSU, with the exception of a four-week summer Field Training encampment conducted on a military base between the second and third year.

Scholarships are available for qualified cadets, and may be applied towards tuition, lab fees, and other required items. In addition, scholarship students receive a non-taxable book allowance and monthly stipend. All third and fourth year students receive a monthly stipend regardless of scholarship status. Upon successful completion of the AFROTC program and all requirements for a Bachelor's Degree, cadets are commissioned as Second Lieutenants and serve a minimum of four years in the Active Duty Air Force.

Cuyamaca College does not have a Reserve Officer Training Corps (ROTC) program on campus; however, through an agreement with San Diego State University, students may participate in Air Force ROTC through the SDSU College of Extended Studies. Credits earned in these classes may be transferred as electives to meet the degree requirements of Cuyamaca College.

There is no advance application needed to participate in the Freshmen or Sophomore level course; however, an orientation program, held just prior to the start of the semester, is recommended. Interested students should visit www.afrotc.com (http://www.afrotc.com) for further information and may call the AFROTC Detachment 075 Unit Admissions Officer at (619) 594-5545 with any questions.

Campus Safety

Law Enforcement Services at the District are provided by the San Diego County Sheriff's Department. If necessary, the District also has access to Sheriff's Department specialized units that investigate crimes such as illegal drug sales, auto theft or gang-related crime.

In addition, a team of Parking Services specialists provides services such as automobile assistance, lost & found, and safe walks.

The Public Safety Office is located at the Cuyamaca One-Stop, A-100 building.

Public Safety Contact Information

Call 911 in an emergency

- Life-threatening situation
- Medical emergency
- Missing persons
- Crime in progress
- Fire
- Major disturbance

Call (858) 868-3200 to contact law enforcement for a nonemergency

- Crime report
- Suspected suspicious activity

Call (619) 644-7654 for Parking Services

- Automobile assistance
- Parking information
- Lost & found
- Safety walks

Additional public safety information is available at: www.gcccd.edu/public-safety (http://www.gcccd.edu/public-safety)

Parking & Traffic Regulations

All vehicles must have a valid college parking permit while parked on campus property. The responsibility of finding a legal parking space, as well as knowing where and when a parking permit is valid, rests with the vehicle operator and/or owner. The purchase of a parking permit does not guarantee a space to park. For the safety of the college community, all California Vehicles Codes are enforced. All community members (students, staff, faculty, and visitors) are primarily responsible for their own safety and property.

For further information, contact the Parking Services at (619) 644-7654.

Student and Visitor Parking Permits

Student parking permits are required Monday through Saturday. Student and visitor parking spaces are free on Sunday. Parking permits are only valid in student spaces. California parking regulations are enforced year-round, including during holidays, spring break, weekends, and summer sessions. Restrictions include, but are not limited to, parking in a fire lane, staff parking, disabled placard misuse, and timed spaces. Vehicle owners are solely responsible for any loss, damage, or theft that occurs to their vehicle while parked on District property. All vehicles must be parked between two demarcated lines, and overnight parking is not permitted on campus after 11:00 p.m. Student parking permits may be purchased through student self-service or on the Public Safety webpage. Visitor permits may be purchased using the link on the Public Safety webpage: https://paymycite.com/gcccd/temporarypermit.aspx. All vehicles must be parked between two demarcated lines, and overnight parking is not permitted on campus after 11:00 p.m.

Refunds for Parking Permits—You must return your permit within the refund deadline of your class/es to receive a refund. We will process your transaction and you will receive a credit to your card from Phoenix Group. There are no refunds on daily parking permits or semester parking permits purchased through our visitor app.

Faculty & Staff Parking Permits

Permits are available at the Parking Offices.

Cuyamaca: Building A-100
Grossmont: Building 57

Call Boxes and Locations

Call Boxes located inside all campus elevators. Life threatening emergencies should utilize 911.

Disabled Parking Permits

All vehicles utilizing disabled parking spaces must display a state issued identification placard, i.e. DMV issued placard, DP or DV plates. Applications for placards/plates are available at the Department of Motor Vehicles. Disabled Placards are valid in student lots or timed spaces.

Special Events Parking

Please contact Parking Services for parking details. Parking requests for special events or large groups are available through previous arrangements. For detailed information contact Campus and Parking

Services at district.parking@gcccd.edu. Please allow one week advance notice for special events parking and submit a request form found on the District Forms Depot page.

Replacement for Lost or Stolen Permits
There are no refunds or replacement of lost or stolen parking permits.

Motorcycle Parking
Motorcycles, scooters, segways, and mopeds must be parked in designated motorcycle areas.

Alternative Transportation Options
Bicycle racks are available throughout campus.

The college Metropolitan Transit System (MTS) pass is a great way to avoid parking hassles, car expenses, and to have access to unlimited rides throughout the semester. Semester MTS passes are available at the Cashier's Office, G-100 building, window. For more information please visit the MTS website at www.sdmts.com (http://www.sdmts.com).

Motorist Assistance
All persons holding a valid parking permit are eligible to receive the following complimentary services: unlocking vehicle and battery jump start.

Parking Services also provides safe walk services, available to students and staff.

Parking Citation
Fines
Parking citation fines are to be paid within 21 days of issue date or 14 days of delinquent notice. Failure to pay fines on time results in a delinquency fee.

Payments
Fees resulting from citations are payable online at: https://www.paymycite.com/gcccd

Citation status changes will not be processed until the full payment of all applicable fees.

Unpaid citations are subject to a $75.00 delinquent fee. Payment failure will eventually result in a DMV hold on the vehicle's registration.

Appeal Forms
You may complete an online contest form at https://www.paymycite.com/gcccd. Complete the form online within 21 calendar days of the citation's issued date. You will receive a response to your request by mail within 1-2 weeks.

Additional Services
ATM Location
Cuyamaca College: Student Center, I-Building, 2nd floor.

Lost & Found
Lost and Found items should be returned to the Parking Services Office. To check if an item has been turned in, call (619) 644-7654 or stop by the Parking Office.

Heritage of the Americas Museum
Cuyamaca College is the home of the Heritage of the Americas Museum, a cultural and educational center featuring the prehistoric and historic art, culture and natural history of the Americas. Fossils as old as 450 million years are exhibited in the Natural History wing. Artifacts representing ancient cultures of the Americas are presented in the Archaeology and Anthropology wings, and the Art wing displays the art of the world from ancient Chinese jade, including a rare burial suit from the Han Dynasty, to modern painting and sculpture.

The museum also serves as an adjunct to the instructional programs of Cuyamaca and Grossmont Colleges in a variety of academic disciplines. There is a research library of more than a thousand books related to the museum's collections. Students and faculty find the museum to be a valuable research facility and a fascinating place to visit. Admission is free to students. The museum is open Tuesday through Friday, 10 a.m. to 3 p.m. and Open 1st and 3rd Saturdays of the month from Noon to 3 p.m. (Closed Sunday and Monday).

LOCATION
12110 Cuyamaca College Drive West
El Cajon, CA 92019
(619) 670-5194

No Smoking Policy
In accordance with Board Policy 3570, Cuyamaca College is a smoke-free/tobacco-free facility. Violation of this policy will result in appropriate disciplinary penalties for both students and employees. Any District public safety official may warn or cite any person who is in violation of this policy. In Accordance with AP 3570, "Smoking" means engaging in an act that generates smoke or vapor, such as possessing a lighted pipe; a lighted hookah pipe; operating an electronic cigarette or other electronic nicotine delivery system; a lighted cigar; a lighted cigarette of any kind; or lighting or igniting a pipe, a hookah pipe, a cigar, or a cigarette of any kind.

Online Courses
Cuyamaca College offers a variety of courses entirely online, hybrid (partially online), and HyFlex (on campus or via Zoom). Some courses require on-campus orientations and/or exams. Online courses require that students have dependable access to the Internet through their own Internet Service Provider or through one of the college's computer labs.

If you are self-motivated, self-disciplined, have good basic computer skills, and are able to read and follow instructions carefully, online courses may be a good option for you. To learn more about whether online learning is for you, please visit our online success website at: www.cuyamaca.edu/academics/online-learning.php (http://www.cuyamaca.edu/academics/online-learning.php).

Nondiscrimination Notice
The Grossmont-Cuyamaca Community College District (GCCCD) is committed to providing learning and working environments that ensure and promote diversity, equity, and inclusion. People of diverse backgrounds, perspectives, socioeconomic levels, cultures, and abilities are valued, welcomed, and included in all aspects of our organization. GCCCD strives to provide an educational environment that fosters cultural awareness, mutual understanding, and respect that ultimately also benefits the global community.

No person shall be unlawfully subjected to discrimination or denied full and equal access to District programs or activities on the basis of ethnic group identification, race or ethnicity, color, national origin, religion, age, gender, gender identity, gender expression, physical or mental disability, medical condition, pregnancy, genetic information, ancestry, sexual orientation, marital status, or military and veteran status, or because he or she is perceived to have one or more of the foregoing characteristics,

or based on association with a person or group with one or more of these actual or perceived characteristics. District programs and activities include, but are not limited to any that are administered or funded directly by or that receive any financial assistance from the California Community Colleges Chancellor's Office.

The Chancellor shall establish administrative procedures that ensure all members of the college community can present complaints regarding alleged violations of this policy and have complaints heard in accordance with the Title 5 regulations and those of other agencies that administer state and federal laws regarding nondiscrimination.

No District funds shall be used for membership or for any participation involving financial payment or contribution on behalf of the District or any individual employed by or associated with the District, to any private organization whose membership practices are discriminatory on the basis of groups mentioned above. (Board Policy 3410)

Inquiries regarding the equal opportunity policies, the filing of grievances or for requesting a copy of the college's grievance procedures may be directed to:

- **Dr. Lauren Vaknin**
  Dean, Student Engagement and Belonging
  Cuyamaca College
  900 Rancho San Diego Parkway
  El Cajon, CA 92019
  (619) 660-4295
- **Dr. Victoria Marron**
  Vice President, Student Services
  Cuyamaca College
  900 Rancho San Diego Parkway
  El Cajon, CA 92019
  (619) 660-4301
- **Melissa Richerson**
  Vice Chancellor, Human Resources
  District Office
  8800 Grossmont College Drive
  El Cajon, CA 92020
  (619) 644-7572

Cuyamaca College recognizes its obligation to provide overall program accessibility for those with physical and mental disabilities. Contact the Disabled Students Programs and Services department at (619) 660-4239 (TTY 619-660-4386), Building G-200, to obtain information on programs and services, activities and facilities on campus and for a geographical accessibility map.

Inquiries regarding federal laws and regulations concerning nondiscrimination in education or the college's compliance with those provisions may also be directed to:

Office for Civil Rights
U.S. Department of Education
221 Main Street, Suite 1020
San Francisco, CA 94105

Revision of Regulations

Any regulation adopted by the Grossmont-Cuyamaca Community College District Governing Board has the same force as a printed regulation in the catalog and supersedes any ruling on the same subject which may appear in the catalog or official bulletin of the college.

Sexual Assault

For sexual assault emergencies, contact 911.

If you are a victim of sexual assault (rape, sexual violence or stalking), please contact the Office of Student Engagement and Belonging at (619) 660-4295 or visit the Office of Student Engagement and Belonging (Student Center, I-121). The Office of Student Engagement and Belonging will provide students with the resources and support needed during this time. In addition, students will be provided guidance on reporting options.

Additional resources can be found at: http://www.cuyamaca.edu/consumer-information.php.

For all emergencies, please contact 911.

Any sexual assault or physical abuse, including, but not limited to, rape, as defined by California law, whether committed by an employee, student, or member of the public, occurring on Grossmont-Cuyamaca Community College District property, in connection with all the academic, educational, extracurricular, athletic, and other programs of the District, whether those programs take place in the District's facilities or at another location, or on an off-campus site or facility maintained by the District, or on grounds or facilities maintained by a student organization, is a violation of District policies and regulations, and is subject to all applicable punishment, including criminal procedures and employee or student discipline procedures (AP 3540).

Student Equity Plan

The Grossmont-Cuyamaca Community College District recognizes that California's economic and social future depends upon the success of all its citizens, particularly those enrolled in institutions of higher education. Therefore, the College has developed a Student Equity Plan.

The intent of the Student Equity Plan is to move our District toward achieving student equity by ensuring that the composition of students who enroll are retained, transfer or achieve their occupational goals mirrors the diversity of the population of the District's service area. The Student Equity Plan is subject to on-going coordination, evaluation and revision. It guarantees that student equity and student success are explicit and integral parts of the District's priorities.

Study Abroad Programs

Study Abroad programs enable students to immerse themselves in a foreign language environment. During these programs, students are housed in apartments or with host families, which not only allows the students to become more proficient in a foreign language, but also gives them the opportunity to experience a different culture.

Summer Session

The College offers a summer session that includes courses and programs also available in the regular academic year. College and legal regulations including residency, fees, veterans and withdrawal procedures apply.

Tutoring

Everyone needs a little help sometimes. Tutoring is free, and students may begin using services at any point in the semester. Learning Assistants – most of whom are current or former Cuyamaca students, themselves – help students adapt to college, learn course skills and

content, refine general study skills and strategies, and become more confident, independent learners. Tutoring is offered in online, email, and in-person formats through various campus locations as well as through the Cuyamaca Virtual Tutoring Center. For more information and/or to request an appointment, please click on the blue "Tutoring" link in your course Canvas container, email cuyamaca.tutoring@gcccd.edu, visit the Tutoring website at www.cuyamaca.edu/tutoring (http://www.cuyamaca.edu/tutoring), or leave a voicemail at (619) 660-4525.

Voter Registration

Register to Vote at www.sos.ca.gov/elections/voter-registration/ (http://www.sos.ca.gov/elections/voter-registration/)

For information on early voting dates, please access the Registrar of Voters website at www.sdvote.com/ (http://www.sdvote.com/).

Voter Registration Dates:

For upcoming election deadlines throughout California, please access:

https://www.sos.ca.gov/elections/upcoming-elections/county-administered-elections

National Voter Registration Day — **September 15, 2026**

Last Day to Register to Vote:

- **In Person:** 15 days before Election Day
- **By Mail:** Postmarked 15 days before Election Day
- **Online:** 15 days before Election Day

You can also "conditionally" register and vote at your county elections office after the 15-day voter registration deadline.

All dates can be verified online at the Secretary of State (www.sos.ca.gov/elections (http://www.sos.ca.gov/elections)) *or county election office* (www.sdvote.com (http://www.sdvote.com))

Admission Information

Address Change

A change of address and email address must be immediately reported to the Admissions and Records Office. You may change your address information online in Self-Service www.cuyamaca.edu (http://www.cuyamaca.edu) or by completing the following Admissions and Records Address/Email/Phone Update Form (cognitoforms.com) (https://www.cognitoforms.com/GrossmontCuyamacaCommunityCollegeDistrict/AddressEmailPhoneUpdateForm).

For students receiving financial aid, please go to the Admissions and Records Office to change your address.

Admission Procedures

To enroll at Cuyamaca College students should observe the following admission procedures:

1. **Apply Online:** Before you can register for classes, you must fill out an application to the college. This can be done online, and it is free! Please visit How to Apply (https://www.cuyamaca.edu/admissions/how-to-apply/) on Cuyamaca's website to access the online application.
2. **Create Self-Service Account:**
   Once your application is processed, please login to Self-Service account.
   - **Your Username:**
     - For continuing students, your username will be either
       - firstname(dot)lastname(at)gcccd(dot)edu or
       - firstinitial(dot)lastname(at)gcccd(dot)edu
         Note: If your username included numbers after your last name, this will be the same.
     - For new students applying to the college after 3/28/25, your username will be either
       - Firstinitial(dot)lastname(at)gcccd.edu or
       - Firstinitial(dot)lastname#(at)gcccd.edu
   - **Your Password:**
     - For first time students, your initial password will have been provided to you in the Welcome email.
     - For continuing students, use your existing password that you already use to access computers on campus, the campus Wi-Fi or your GCCCD email. Note your old Self-Service password will not work for this.
   - To enhance security, you will be asked to use an Authenticator app (https://www.gcccd.edu/it/help-desk-services/guides/mfasetup.php) when logging in. This will be utilized when accessing any GCCCD resource while away from campus.
   - GCCCD utilizes the Microsoft Authenticator app for Two-Factor Authentication.
     - If you have not already set this up, follow these step-by-step instructions (https://www.gcccd.edu/it/help-desk-services/guides/mfasetup.php) for setting up the Microsoft Authenticator can be found in this Tech Guide.
     - Log in to the GCCCD Microsoft login page (https://mysignins.microsoft.com/security-info) from on-campus to ensure your authentication methods are current. You will need to enter a personal email address and/or phone number that you have access to. This will allow you to reset your password and complete multi-factor authentication.
     - You may be required to update your password periodically to maintain secure access.
     - If you forget your password, you can easily recover your credentials using Microsoft's password recovery tool (https://passwordreset.microsoftonline.com/?whr=gcccd.edu).
     - Find quick answers to our top GCCCD Frequently Asked Questions (https://www.gcccd.edu/it/help-desk-services/faqs.php).
     - See our Technology Guides (https://www.gcccd.edu/it/help-desk-services/guides/passwords.php) for help with your login and passwords.
     - If you do not have a smartphone to install the Authenticator app, contact the Help Desk (https://www.gcccd.edu/it/help-desk-services/) and they will get you set up with a different method for you to get authenticated when you log in.
3. **Submit Official Transcripts to Admissions and Records**: If you have attended another college, please have your official transcripts sent to the Admissions and Records office to have your transcripts evaluated, and to award prior credit for degrees and certificates; this includes all AP, CLEP, or IB credit. Official transcripts and scores must still be in the sealed official envelope when submitted.
4. **Complete the Online Orientation:** Complete the New Student Orientation on Self-Service. You may access the New Student Orientation by signing into Self-Service, clicking on Students and under Enrollment Checklist and under "To Do" clicking on New Student Orientation.
5. **Determine Math and English Placement:** To determine placement for Math and English courses please take the questionnaire on Self-Service in the student Menu Enrollment Checklist, and click on Cuyamaca Placement Questionnaire and Abbreviated Educational Plan. For questions regarding your placement, please visit a counselor for guidance on which courses to take.
6. **Abbreviated Education Plan:** Once you have completed the Placement test the next step is to complete the Abbreviated Educational Plan portion of the Placement Questionnaire and Abbreviated Educational Plan. To complete the Abbreviated Educational Plan please login to Self-Service and click on "Enrollment Checklist" then under "To Do" click "Cuyamaca Placement Questionnaire and Abbreviated Educational Plan."
7. **Register for Classes:** You will receive an e-mail indicating your registration date and time; in April for Summer and Fall, and November for Spring. Registration appointments can also be viewed in Self-Service. The college year is divided into three sessions: Fall and Spring semesters and a Summer session. You may register for classes online using Self-Service. Self-Service online tutorials are available to assist you.
8. **Pay Fees:** Once you have registered for classes you must now pay your tuition and fees. You can pay your fees via Self-Service or on campus at the Cashier's office.

Admission Requirements

Eligibility for Enrollment

Students may be admitted to Grossmont or Cuyamaca College if they meet **at least one** of the following criteria:

- Have earned a high school diploma from a recognized or accredited institution

- Possess a General Educational Development (GED) certificate
- Hold a recognized equivalent of a high school diploma as determined by state or local educational authorities
- Are 18 years of age or older and can demonstrate the ability to benefit from college-level instruction

Students who are **17 years old or younger before the start of the semester** must provide proof of high school graduation to the Admissions and Records Office.

While earning a high school diploma through a local adult school is recommended, non-graduates who are over 18 years of age may be admitted based on their ability to benefit.

Students transferring from accredited colleges or universities are also eligible for admission.

Due to state authorization requirements, at this time students who are physically located outside California are not eligible to enroll in online or distance education courses offered by Cuyamaca College. Students must be physically located in California while participating in online or distance education coursework.

Verification of High School Completion

To ensure enrollment integrity and compliance with district policies and federal financial aid requirements, the Grossmont-Cuyamaca Community College District (GCCCD) may verify high school completion using the following procedures:

1. Documentation Review

- Students may be asked to submit official high school transcripts or records confirming completion of secondary education.
- If there are concerns about the validity of a diploma, additional documentation may be requested, such as:
  - A description of coursework or graduation requirements
  - A signed statement from a school official verifying that the school meets academic standards

2. State, Tribal, or Local Oversight Confirmation

- If the high school is overseen by a state, Tribal, or local education authority, GCCCD may seek verification directly from the relevant agency to confirm the school's recognition and legitimacy.

3. Internal Reference Lists

- GCCCD may consult internal records of schools previously identified as issuing non-recognized diplomas or requiring minimal academic instruction. These references help guide decisions about diploma acceptability.

Criteria for Invalid Diplomas

A diploma may be deemed invalid if it meets any of the following conditions:

- Issued by a school that is not recognized or fails to meet applicable educational standards
- Obtained from an institution requiring little or no academic coursework
- Issued by an entity primarily operating to provide diplomas without proper academic rigor

Financial Aid Considerations

When completing the FAFSA, students must report their high school information, including the name, city, and state. Note: A school's presence or absence from the FAFSA dropdown list **does not** guarantee the validity of the diploma.

Resolving Conflicting Information

If discrepancies arise between a student's FAFSA responses and other records, GCCCD must resolve the conflict before awarding financial aid. **Self-certification is not sufficient** when a diploma's validity is in question.

District Authority

The Grossmont-Cuyamaca Community College District reserves the right to determine the acceptability of high school diplomas or equivalents based on established district procedures. Final decisions regarding both enrollment eligibility and financial aid are made by the college.

Dual Enrollment: High school students in the 9th, 10th, 11th, or 12th grade, may attend upon approval of a high school counselor and parent or guardian of the student. Courses attempted and units earned will be recorded on a college permanent record. High school students are not eligible to receive Title IV Federal Financial Aid, and if classified as a non-resident of California, will be responsible to pay non-resident tuition. For more information on Dual Enrollment, visit www.cuyamaca.edu/admissions/high-school-students.php. (http://www.cuyamaca.edu/admissions/high-school-students.php)

The Enrollment Checklist

As vital components of the Student Success and Support Program, completing the Enrollment Checklist is expected of all new students.

The Counseling Department and Placement Center will utilize various means of evaluation to place students into the appropriate Math, English, and English as a Second Language (ESL) level. Students should take the Cuyamaca Placement Questionnaire and Abbreviated Educational Plan on Self-Service, then meet with a counselor for proper Math and English placement guidance. Students may obtain clearance from the Math and English placement if they have:

- taken an English and Math class at a college and received a grade of "Pass" or a minimum grade of "C", or
- earned an associate degree or higher, or
- completed an acceptable external examination (see External Exams Credit)

The Counseling Department and Placement Center are located in G-200 in the Student Services Building. For questions regarding Math and English placement, visit the "Placement" page of the Cuyamaca website at www.cuyamaca.edu/placement (http://www.cuyamaca.edu/placement). Accommodations are available to students with disabilities who plan on taking the Math and English placement.

Orientation and New Student Advising sessions provide important information to students about the programs and services available at the college as well as strategies for student success. New Student Advising sessions offer an opportunity for the new student to develop an Educational Plan, an important tool to assist students in attaining goals efficiently. New students must complete the Cuyamaca Placement Questionnaire and Abbreviated Educational Plan for timely registration.

New, returning, or transfer students may be exempt from the Enrollment Checklist process. For a list of exemptions, see Student Success and Support Program (https://www.cuyamaca.edu/student-support/counseling-center/placement/).

Enrollment Priorities

Changes to course registration policies throughout the California community colleges will help students get the courses they need to meet their educational goals. With this new registration system, students who are making progress toward their goals will be rewarded for their efforts. Enrollment priorities in the Grossmont-Cuyamaca Community College District are listed below:

Students will be placed in "groups" based on the criteria below. All new students are required to complete an orientation, assessment, and develop a student education plan in order to be eligible for priority enrollment.

- Group 1:
  - A member or veteran of the Armed forces of the United states who is a resident of California California;
  - A foster youth or former foster youth, youth who is not older than 25 years of age at the commencement of the academic year;
  - A verified homeless youth, or former homeless youth who not older than 25 years of age at the commencement of the academic year;
  - Extended Opportunity Programs and Services (EOPS) eligible students;
  - Disabled Students Programs and Services (DSPS) eligible students;
  - CalWORKs eligible students;
  - A student who is a Tribal TANF recipient;
  - A student who has a child or children under the age of 18 who will receive more than half of their support from that student;
  - Receiving services from a program funded by Rising Scholars Network funds
- Group 2:
  - First Year Experience (FYE) eligible students;
  - Freshman Academy eligible students;
  - UMOJA students
  - Puente students
  - MESA
  - AB540 eligible students
  - Student government executive board members
  - Eligible student athletes who have completed orientation, assessment, and developed student education plan, and have been identified as eligible to participate in the College's designated intercollegiate competitive athletic teams.
- Group 3:
  - Continuing GCCCD district students with 45-90 GCCCD degree-applicable units.
- Group 4:
  - Recently graduated high school students and first-time students to college students who have completed orientation, assessment, and developed student education plan.
- Group 5:
  - Continuing GCCCD district students with 12 or more units (GCCCD degree-applicable and GCCCD non-degree applicable) but not more than 44.5 GCCCD degree-applicable units.
- Group 6:
  - Middle College;
  - CCAP students;
  - Early College students
  - Continuing GCCCD district students with 0-11.5 units (GCCCD degree-applicable and GCCCD non-degree applicable).
- Group 7:
  - New students who have applied, but have not gone through the matriculation process

The following students will have priority for enrollment:

- First time students who have completed orientation, assessment, and developed student education plans. Students who fail to complete these requirements in a timely manner may result in the loss of their enrollment priority status.
- Continuing students, who has not lost registration priority, as defined in these policies and procedures.

These registration priorities do apply to courses offered during summer or intersessions.

The District will ensure that these enrollment priorities shall be set forth in detail in college course catalogs and websites.

Loss of Enrollment Priority (Applies to all students including Veterans, CalWORKs, DSPS, and EOPS)

Enrollment priority specified above shall be lost at the first registration opportunity after a student:

- Is placed on academic or progress probation or any combination thereof as defined in Administrative Procedure AP4250 Probation, Dismissal, and Readmission (https://www.gcccd.edu/_resources/docs/governing-board/procedures/ch4/AP%204250.pdf) for two consecutive terms; or
- Has earned ninety (90) or more degree-applicable semester units at the District.

The District shall notify students who are placed on academic or progress probation, of the potential for loss of priority enrollment. As per state regulations, foster youth and former foster youth are exempt from losing their enrollment priority status.

Petition of Loss of Enrollment Priority Status

Students may petition the loss of their enrollment priority based on one of the following criteria:

- Students who have experienced extenuating circumstances (verified cases of accident, illnesses or other circumstances beyond the student's control that affected their academic performance in the previous semester) and can provide documentation of such circumstances.
- Students who have made significant academic improvement where they meet the minimum grade point average and/or progress standard to be removed from academic or progress probation.
- Students who have exceeded 90 units of degree-applicable coursework at GCCCD and are enrolled in a high unit major.
- Students with disabilities who applied for but did not receive reasonable accommodations in a timely manner.
- Students who have other specific situations that warrant considerations (e.g., last term at GCCCD and needs a specific course to graduate or transfer).

Students who wish to submit a petition may find the form by clicking here: Enrollment Priority (https://www.cuyamaca.edu/admissions/enrollment-priority.php).

Enrollment Verification

Each student who has an academic record on file at Cuyamaca College may request verification of enrollment (commonly used to verify enrollment for insurance purposes, scholarships, student worker eligibility, etc.) from the Admissions and Records Office. Verification of enrollment are processed within 5 working days, holidays and weekends are excluded. Exception: This charge will not be assessed for student loan deferments. Please note processing time does not include shipping.

Cuyamaca has authorized the National Student Clearinghouse to act as its agent for verification of student enrollment status. Students can obtain an official Enrollment Verification Certificate at any time via the Clearinghouse website at: www.enrollmentverify.org (http://www.enrollmentverify.org) for a $4.95 charge per certificate.

Fees

Cuyamaca College is part of the California Community College system and requires enrollment, student center construction, and health services fees for all students, payable at the time of registration. Students are dropped from classes for non-payment of fees. The California College Promise Grant provides methods to assist low income students pay these fees. Eligibility requirements are available in the Financial Aid Office.

Students may purchase daily or semester parking permits. See “Parking & Traffic Regulations” for more information.

Students are required to purchase their own textbooks and supplies and may be required to pay for equipment which is lost or broken after it has been issued.

All students are encouraged to purchase of a Student Benefit Card at the Cashiers office.

Registration Fees

Registration fees are expected at the time of registration. You will be held to all fees incurred. Students are dropped from classes for non-payment of fees. Registration is **not** complete until fees have been paid. Failure to pay will result in a hold on your records. Refund deadlines vary by class; refer to the Academic Calendar (https://www.cuyamaca.edu/academics/class-schedules-catalog-and-self-service/academic-calendar/) in the class schedule and https://www.cuyamaca.edu/academics/class-schedules-catalog-and-calendars/admission-deadlines.php. It is the student’s responsibility to drop any classes that they do not plan to attend.

Students attending both Cuyamaca and Grossmont Colleges pay parking fees and health fees on one campus only. Enrollment and health fees for these students are calculated on a district basis.

Fee	Amount
Enrollment Fee (Mandatory)	$46 per unit (fees are subject to change)
Parking Permits:	
Auto Parking Permit - Fall & Spring	$40
Auto Parking Permit - Summer	$18
One Day Permit	$2
Student Benefit Sticker- Fall & Spring[1]	$12
Student Benefit Sticker - Summer[1]	$6
Health Fee (Mandatory) - Fall & Spring[2]	$28
Health Fee (Mandatory) - Summer & Intersession[2]	$23
Student Center Construction Fee (Mandatory)[3]	$1 per unit to a maximum of $5
Student Representation Fee (Optional)	$2
Nonresident Students - above fees plus	$377 per unit
International Students - above fees plus	$377 per unit

1 **Student Benefit Sticker:** A Student Benefit Sticker may be purchased for $12. This sticker entitles students to free admission to all college-sponsored athletic events, 10% off all supplies from the College Bookstore (excluding textbooks), as well as special college and community discounts. The Student Benefit Sticker also helps the Associated Student Government of Cuyamaca College (ASGCC) to support various activities and programs on campus. The Student Benefit Sticker can be picked up in room I-121 starting the first day of the semester. For additional information, please call (619) 660-4612.

2 **Health Fee:** The mandatory health fee supports the Health and Wellness Center and provides for insurance coverage should a student be injured during a supervised, on-campus or college-related activity. Students who depend exclusively upon prayer for healing according to the teaching of a bona fide religious sect, denomination or organization may petition for an exemption from the health fee by submitting a written request to the Dean of Student Engagement and Belonging. Requests for exemption will be reviewed by the Vice President of Student Services and the Dean of Student Engagement and Belonging. For additional information, please contact the Vice President of Student Services at (619) 660-4301.

3 Student Center Construction Fee is not applicable for summer session.

Grossmont-Cuyamaca Promise Program: ***Free*** college for first year students! Go to www.MyCollegePromise.net (http://www.MyCollegePromise.net) to find out how!

Zero Textbook Cost sections are designated with the ZTC symbol in the PDF version of the class schedule, and Self-Service (https://selfservice.gcccd.edu/Student/Courses), do not require students to purchase a textbook. These sections may have recommended (but not required) books, or may use free, openly licensed teaching and learning resources, such as Open Educational Resources (OER). ZTC sections may have a fee for items such as lab supplies, calculator, test forms, etc. but no conventional textbook fees.

Low Textbook Cost sections are designated with the LTC symbol in the PDF version of the class schedule, and Self-Service (https://selfservice.gcccd.edu/Student/Courses). The total cost of books, textbooks, and/or other instructional resources for this section will not exceed $40.00.

Open Educational Resources (OER) are teaching, learning, and research resources that reside in the public domain or have been released under an open license. OER are legally available and free of cost to students. Class

sections using OER with no textbook costs are designated as "OER " in the class schedule.

Title 38 Beneficiaries (VA Education Benefits) Fees and Expenses Hold

Hold Preventing Drop for Non-Payment
Cuyamaca College will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment to be provided by the Secretary under chapter 31 or 33 of this title.

Covered individual is any individual who is entitled to CH 31 or CH 33 VA Educational benefits. A covered individual must complete the following to not have any of the above penalties imposed:

1. Submit a certificate of eligibility for entitlement to the Veterans Center no later than the first day of a term.
2. Submit a completed Semester Veterans Center Worksheet to the Veterans Center.
3. Provide all additional information needed to Veterans Center to certify covered individual's enrollment certification to the Department of Veterans Affairs.

High School Courses for College Credit

High School students may earn college credit through the Career Technical Education (CTE) College Credit program. CTE is an important school-to-work transition strategy, helping high school students make the connection between school, college and employment. To receive credit, high school students must enroll in an approved Career Technical Education (CTE) College Credit course at a participating high school. Students must complete the course with a "B" or better. After the end of the semester, students must submit the CTE college credit form to the Cuyamaca College Admissions and Records Office. Credit will be earned via successful credit by examination and appropriately noted on the college transcript. High schools that participate in the Grossmont-Cuyamaca Community College District CTE Program are:

- Altus Schools
- Central
- Chaparral
- El Cajon Valley
- El Capitan
- Escondido
- Granite Hills
- Grossmont
- Helix
- IDEA Center
- Monte Vista
- Mt. Miguel
- Mountain Empire
- Patrick Henry
- Ramona
- Santana
- Steele Canyon
- Valhalla
- West Hills

For more information, visit www.gcccd.edu/cte-college-credit/index.php (https://www.gcccd.edu/cte-college-credit/)

Instructional Materials

Students may be required to purchase instructional and other materials required for a credit or non-credit course, provided that such materials are of continuing value to a student outside of the classroom setting, and provided that such materials are not solely or exclusively available from the district.

Student access to textbooks and supplemental materials that are needed on the first day of class will be made available. Instructors are responsible for selecting instructional materials and shall take reasonable steps to minimize the cost of instructional materials.

International Student Program

Admission

1. Applications for admission must be received by the following deadlines:
    1. Fall Semester – June 1
    2. Spring semester – November 1
    All application materials must be received by the above deadlines.
2. TOEFL scores must be submitted in order to be considered for admission. The minimum score is 450 paper based or 45 internet-based. The TOEFL test must be completed by the application deadline.
3. New students must enroll in the appropriate level English class.

Full-Time Status

An international student must maintain a minimum of 12 units with a 2.0 grade point average each fall and spring semester at Cuyamaca College.

Financial Resources

1. Each international student must submit a complete financial statement. The financial statement must indicate the ability of the student to finance the year's education to the satisfaction of the Admissions and Records Office (approximately $35,216 in U.S. dollars per year).
2. An international student attending Cuyamaca College must pay international student tuition and other fees as required by the Governing Board.
3. Financial aid is not available for international students.
4. An international student may not work off-campus while attending college unless approval is granted by the Department of Homeland Security and the International Student Specialist in Admissions and Records. In some instances an international student may, after completing at least two semesters, work on campus for 20 hours per week.

Health

Cuyamaca College **strongly** recommends that international students obtain a health and accident insurance policy. The Health and Wellness Center has information on where to acquire such a policy.

Housing

Cuyamaca College does not have on-campus housing; however, we do work with a home family agency. Information is available in the Admissions and Records Office. The college assumes no responsibility for providing or supervising such housing facilities.

Grading Standards

International students are subject to all Cuyamaca College grading, probation and disqualification standards.

Notification of Admission

Students will be notified of their acceptance to Cuyamaca College as soon as their application materials are received and approved. Students need to be available for preregistration orientation and educational counseling approximately four weeks prior to the start of each semester.

Refund Schedule

The refund schedule for international student tuition, nonresident tuition, enrollment, student center construction and health services fees is as follows:

- Full semester courses:
  - 100% refund through first two weeks of instruction
  - 0% refund after second week of instruction
- 8 week courses:
  - 100% refund through first week of instruction
  - 0% refund after first week of instruction
- Other short-term classes:
  - Contact the Admissions and Records Office or go to https://www.cuyamaca.edu/academics/class-schedules-catalog-and-calendars/admission-deadlines.php and click on "Short-term Class deadlines"

Non-resident Tuition Refund

Refunds after the refund deadline will be made for the following reasons only:

1. *Erroneous determination of nonresident status.* If a student is erroneously determined to be a nonresident and, consequently, a tuition fee is paid, such fee is refundable in full, provided acceptable proof of state residence is presented within the period for which the fee was paid.
2. *Compulsory military service.*

Residency Information

Each person enrolled or applying for admission to any California community college will provide such information and evidence of residence as deemed necessary by the District Governing Board to determine residence classification. Falsification of residency information may result in admission to the college being denied. Guidelines for determining residency are outlined in the California Administrative and Education Codes. The determination of a person's classification will be made in accordance with the provisions of these policies and the residence determination date for the semester or session for which the person proposes to attend. The following is a summary of residency guidelines and is by no means complete. Changes may have been made in the statutes and regulations since the time this catalog was published. For more information, contact the Residency Specialist in the Admissions and Records Office.

1. **Residence Classification**
   1. A "resident" is a person who has been both physically present, and has established intent to make California his/her residence for more than one year immediately preceding the residence determination date (Section 54020 of Title 5 of the California Administrative Code). The "residence determination date" is the day immediately preceding the first day of instruction of the semester or session to which the person seeks admission.
   2. A "nonresident" is a person who has not been both physically present and established intent to make California his/her residence for more than one year immediately preceding the residence determination date. Persons so classified, unless they qualify under one or more of the exceptions later specified, will be required to pay a tuition fee as established by the Grossmont-Cuyamaca Community College District Governing Board.
2. **Determination of Residence**
   1. Residence. To determine a person's place of residence, the following rules are observed:
      1. Every person has, in law, a residence.
      2. Every person who is married or 18 years of age, or older, and not precluded from doing so, may establish residence.
      3. There can only be one residence.
      4. Residence is the place where one remains when not called elsewhere for labor or other special or temporary purposes, and to which one returns in seasons of repose.
      5. A residence cannot be lost until another is gained.
      6. Residence can be changed only by the union of act and intent.
      7. An individual may establish their residence. A person's residence shall not be derived from that of their spouse.
   2. Adults. Persons 18 years of age or older may establish residence in accordance with Section A.
   3. Minors. Persons under 18 years of age may establish residence in accordance with the following:
      1. A married minor may establish their own residence.
      2. If the parents are permanently separated, the residence of the minor is the residence of the parent with whom the minor lives.
      3. If both parents are deceased, and there is no court-appointed guardian, the minor may establish their own residence.
      4. The residence of an unmarried minor who has a parent living cannot be changed by their own act, by the appointment of a legal guardian, or by relinquishment of a parent's right of control, unless the minor qualifies for the two-year care and control or the self-support exception.
      5. A person who is a minor, and resides with either the father or mother (or both), may be classified as a resident of California if the parent (or parents) with whom the minor lives has established residence in California for more than one year prior to the residence determination date.
3. **Factors To Be Considered in Determining Residence**
   1. Residence is established only by the union of both physical presence and intent. No one factor is decisive, however, the college may look for certain objective manifestations of subjective intent on the part of one asserting that residence status has been established, or has been maintained in spite of an absence from California.

The following factors may be used to demonstrate evidence of maintaining physical presence:

1. Carrying on of a business or employment in California.
2. Maintaining active savings and checking accounts in California banks.
3. Ownership of residential property or continuous occupancy of rented or leased property in California.
4. Active resident membership in service or social clubs.

The following factors may be used to demonstrate intent to reside in California:

1. Filing California personal income taxes as a resident.
2. Registering to vote and voting in California elections.
3. Possession of a California Driver's License or California Identification Card from the Department of Motor Vehicles.
4. Possession of California resident vehicle license plates.
5. Petitioning for a divorce or lawsuit as a resident of California.
6. Carrying on of a business or employment in California.
7. Possession of a California resident hunting or fishing license.
8. Licensing from California for professional practice.
9. California address on federal income tax forms and W-2 forms.
10. Maintaining a California address as the home of record on military records and on the Leave and Earnings Statement (LES) while in the armed forces.

2. Factors that are inconsistent with a claim for California residence include, but are not limited to, the following:
   1. Filing California State income taxes as a nonresident or filing income taxes as a resident in another state.
   2. Maintaining a driver's license in another state.
   3. Maintaining vehicle registration in another state.
   4. Maintaining voter registration and voting in another state.
   5. Attending an out-of-state institution as a resident of that state.
   6. Petitioning for a divorce or lawsuit as a resident in another state.
3. The Cuyamaca College admissions/residency questionnaire shall contain a variety of questions directed at establishing the residency classification of a person.
4. *Exceptions.*
   1. Persons who have attended a California high school for at least three years and have graduated from a California high school, or have attained the equivalent status, are exempt from paying nonresident tuition. This exemption applies to persons who would usually be classified as nonresidents, including undocumented immigrants. Nonimmigrant aliens, including persons on F and B visas, are not eligible for this exemption.
   2. A minor who remains in California after resident parents establish residence elsewhere (within one year immediately prior to the residence determination date), may retain resident status until the minor has attained the age of majority and has resided in California long enough to establish residence, so long as, once enrolled, continuous full-time attendance is maintained. Nothing in this section will require attendance during summer intersession or any session beyond the normal academic year.
   3. A minor who has been entirely self-supporting and actually present in California for more than one year immediately preceding the residence determination date, with the intention of acquiring a residence therein, shall be entitled to resident classification until he/she has resided in California the minimum time necessary to become a resident. Certain requirements must be met.
   4. A student who currently resides in California and is 19 years of age or under at the time of enrollment, who is currently a dependent or ward of the state though California's child welfare system, or was served by California's child welfare system and is no longer being served either due to emancipation or aging out of the system, may be entitled to resident classification until he or she has resided in the state the minimum time necessary to become a resident.
   5. A minor shall be entitled to resident classification if, immediately prior to enrolling at a California community college, the minor has lived with and been under the continuous direct care and control of any adult or adults, other than a parent, for a period of not less than two years, provided that the adult or adults having such control have been domiciled in California for more than one year immediately prior to the residence determination date. This exception shall continue until the student has attained the age of majority and has resided in California the minimum time necessary to become a resident so long as continuous full-time attendance is maintained.
   6. An unmarried minor alien will be entitled to resident classification if the minor and the minor's parents have not been precluded by the Immigration and Nationality Act from establishing domicile in the United States, provided that the parents have established residence in California for more than one year prior to the residence determination date for the semester or session for which the minor proposes to attend. An exception is made to minors, for establishing residency, if the minor is a U.S. citizen and his/her parents are undocumented aliens.
   7. A person who is an adult alien will be entitled to resident classification if he/she is not precluded by the Immigration and Nationality Act from establishing domicile in the United States, provided that he/she has established residence in California for more than one year prior to the residence determination date for the semester or session for which he/she proposes to attend.
   8. A person classified as a nonresident shall not obtain resident classification, as a result of maintaining continuous attendance at an institution, without meeting the other requirements of obtaining such classification.
   9. An undergraduate student who is a dependent (natural or adopted child, stepchild or spouse) of a member of the armed forces of the United States stationed in California on active duty, is exempt from paying nonresident tuition for the duration of his/her enrollment at a California community college. Graduate dependents are exempt from paying nonresident tuition for one year from the date of his/her arrival in California. If the member of the armed forces, whose undergraduate dependent is in attendance at Cuyamaca

College (1) is transferred, on military orders, to a place outside of California, or (2) retires from active duty, the dependent shall not lose his or her exemption status for the one year duration it takes to establish residency. After one year has elapsed, the dependent is subject to reclassification according to the policies stated in this section.

10. An undergraduate student who is a member of the armed forces of the United States stationed in California on active duty, except a member assigned for educational purposes to state-supported institutions of higher education, shall be exempt from paying nonresident tuition for the duration of his/her enrollment at a California community college. Graduate active military students are exempt from paying nonresident tuition for one year from the date of his/her arrival in California. After one year has elapsed, the student is subject to reclassification according to the policies stated in this section.
11. Absence due to Military Service; California Education Code 99130. Subject to applicable federal, state, and institutional refund and withdrawal policies, when a student is called to active military duty during an academic term, the student may choose one of the following options:
    1. The student may withdraw from the institution, retroactively to the beginning of the academic term, with a full refund of tuition and fees.
    2. If at least 75% of the academic term has been completed, the student may request that the faculty member assign a grade for the course based on the work the student has completed. The faculty member shall make the final decision as to whether to grant the student request.
    3. If the faculty member assigns a grade of Incomplete for the student's course work, the student shall have a minimum of 4 weeks after returning to the institution to complete the course requirement.
    4. Readmission Procedures
        1. Any student whose absence from the institution is necessitated by reason of service in the uniformed services shall be entitled to readmission to the institution if:
            1. The cumulative length of absence does not exceed 5 years.
            2. No more than 3 years after the completion of the period of service has passed.
            3. No more than 2 years have passed since the end of the period that is necessary for recovery from illness or injury resulting from service.
        2. At the end of Active-duty Service, upon request, the student shall be readmitted with the same academic level and academic program, if possible.
12. A person who is an apprentice, as defined in Section 3077 of the Labor Code, will be entitled to resident classification.
13. A person holding a valid credential authorizing service in the public schools of California and who is employed by a school district in a full-time position requiring certification qualifications for the college year in which the person enrolls, shall be entitled to resident classification if such person meets any of the following requirements:
    1. Holding of a provisional public school credential and enrollment in courses necessary to obtain another type of credential authorizing service in the public schools.
    2. Holding a public school credential issued pursuant to Section 44250 and enrollment in courses necessary to fulfill credential requirements.
    3. Enrollment in courses necessary to fulfill the requirements for a fifth year of education prescribed by subdivision (b) of Section 44259.
14. A person who is a full-time employee of a California community college, California State university or college, the University of California, or the California Maritime Academy; or the child or spouse of that person, may be entitled to resident classification until he/she has resided in California the minimum time necessary to become a resident.
15. For purposes of the nonresident tuition fee, a community college district shall disregard the time during which a person living in the district resided outside of California if:
    1. The change of residence to a place outside of California was due to a job transfer and was made at the request of the person's employer or the employer of the person's spouse or, in the case of a person who resided with and was a dependent of the person's parents, the change of residence was made at the request of an employer of either of the person's parents.
    2. Such absence from California was for a period of not more than four years.
    3. At the time of application for admission to a college maintained by the district, the person would qualify as a resident if the period of the person's absence from California was disregarded.

    A nonresident tuition fee shall not be charged to a person who meets each of the conditions specified in subdivisions a. to c., inclusive.

4. **Review and Appeal of Classification**
   The appeal is to be submitted to the Admissions and Records Office, which must forward it to the College's Petitions Committee within ten working days of receipt. Copies of the original application for admission, the residency questionnaire, and evidence or documentation provided by the student, with a cover statement indicating upon what basis the residence classification decision was made, must be forwarded with the appeal. The College's Petitions Committee shall review all the records and have the right to request additional information from either the student or the Admissions and Records Office. Within 30 calendar days of receipt, the College's Petitions Committee shall send a written determination to the student. The determination shall state specific facts on which the appeal decision was made.
5. **Reclassification and Financial Independence**
   Students must complete reclassification forms, which are available in the Admissions and Records Office, for a change in classification from nonresident to resident status. Students will be requested to provide appropriate documentation to prove California residence, for more than one year prior to the residence determination date, for the semester or session which the student is claiming resident status. Education Code Section 68044 requires that the financial independence of a nonresident student seeking reclassification as a resident be included in the factors to be considered in the determination of residence.
6. **Nonresident Tuition**
    1. A person classified as a nonresident will be required to pay nonresident tuition, in addition to other fees required by

the college. Nonresident tuition must be paid at the time of registration.

2. Students who would otherwise be charged nonresident tuition fees for credit English as a Second Language courses shall be exempt if they demonstrate they are a recent immigrant, a recent refugee, or a person who has been granted asylum by the United States. This exemption applies only to individuals who, upon entering the United States, settled in California and who have resided in California for less than one year.

7. **International Student Tuition**
   A nonresident person who is a citizen and resident of a foreign country will be required to pay international student tuition, in addition to other fees required by the college. International student tuition must be paid at the time of registration.

Self-Service

Self-Service is our online student portal, where students can complete the orientation, placement and advising. After completing the three items, the next step is to register (enroll) in classes via Self-Service. Students can pay their tuition/sign up for a payment plan, purchase a parking permit, order official transcripts, view grades by term and check the status of their financial aid and scholarships.

Transcripts

Each student who has an academic record on file at Cuyamaca College may request official transcripts from the Admissions and Records Office. The official transcript includes course work from both Cuyamaca and Grossmont College. Cuyamaca has retained Parchment to accept transcript orders over the Internet. Students may request official transcripts through Self-Service or by the Parchment link provided on our Cuyamaca Admissions web page. Two official transcripts of records are provided without charge. Processing time does not include shipping.

Transfer Credit

Evaluation of U.S. Transcripts

Courses taken at a regionally accredited college or university and designated as appropriate for general education, Associate Degree, baccalaureate or graduate credit by that institution will be accepted by Cuyamaca College for credit. In support of general education reciprocity, courses used to meet general education requirements at another California community college will be applied towards general education Areas 1-7 at Cuyamaca College. English and Mathematics competency levels are governed by California Education Code Title 5, section 55063. The extent to which courses taken at other colleges satisfy specific certificate and degree requirements is determined by a review of comparability to courses in the Cuyamaca College curriculum.

Courses completed at institutions without regional accreditation are not generally accepted.

Evaluation of Foreign Transcripts

Transcripts (educational credentials) issued in foreign countries from non-American system institutions and those in languages other than English require special handling. Each foreign transcript must be translated into English and submitted to an approved agency.

Cuyamaca College accepts the evaluations of foreign transcripts from only those agencies that are current members of NACES (National Association of Credential Evaluations Services). For a current list of agencies visit: www.naces.org (http://www.naces.org).

Students will need to contact the evaluation credential company they select for their particular foreign transcript evaluation procedure and costs associated with a request. Once completed, have the detailed evaluation report mailed directly to the following address:

Admissions Office
Cuyamaca College
900 Rancho San Diego Parkway
El Cajon, CA 92019.

Cuyamaca College Procedure for the Evaluation of Foreign Transcripts

1. Students must submit to Admissions and Records a detailed evaluation report from a NACES member agency with subject breakdowns and grades. The official evaluation credential report must be received by Cuyamaca College in a sealed envelope. Unofficial credential evaluation reports will not be accepted.
2. The official report will be reviewed by the Cuyamaca College Evaluations Office regarding the possible clearing of general education for graduation.
3. English and Communication courses on any evaluation report will be awarded elective credit only.
4. Courses will only be used to satisfy major requirements with the approval of the department on a “Modification of Major” form.
5. International coursework is not considered transferable. Check with the transfer institution.
6. In some instances, additional documentation such as the course syllabus or detailed course description may be needed before an evaluation of foreign coursework can be completed.
7. Official transcripts from foreign institutions are not required by Cuyamaca College.
8. Foreign coursework is not used to clear prerequisites. See specific department for exceptions.

Veterans Services

Upon filling out an application for admission to Cuyamaca College, a veteran should immediately contact the Veterans Certifying Official in the Veterans Center (I-113). Military form DD-214 (member 4) must be presented to the Veterans Office in order to take advantage of veteran’s benefits.

Veterans must request official transcripts of all previous college work, including military transcripts of service (AART, CGIT, CCAF or JST), be sent to the Admissions and Records Office. All transcripts must be received and evaluated before enrollment will be submitted to Veterans Affairs for educational benefits. An official transcript is one that has been sent directly to Cuyamaca College from the issuing institution or one that is hand-carried in a sealed envelope. Students not taking advantage of the GI Bill® benefits who wish to receive credit should also submit official transcripts.

Credit may be granted for military service schools as recommended in the publication *A Guide to Evaluation of Educational Experiences in the Armed Forces*, published by the American Council on Education (ACE). Military credit will be counted toward graduation as general education for military courses substantially similar to coursework offered by Cuyamaca College, or elective credit, unless specifically accepted by a department for use within a student’s major. A maximum of 20 units of military credit

(including up to 3 units of Exercise Science) will be allowed. Students should meet with the veterans' counselor to request an Evaluation of Military Credit.

Veterans who have completed at least one year of honorable active service will receive up to 3 units of credit for Exercise Science activity that will meet the graduation requirement at Cuyamaca College.

Students planning to transfer should consult the catalog of the four-year institution for granting of military credit; award varies. Those planning to transfer to a CSU may be able to satisfy Area E, Lifelong Learning, on CSU GE Breadth. To receive this credit for military service, a DD-214 and appropriate military transcripts must be submitted to the Admissions and Records Office.

A veteran may not repeat a course and receive veterans' benefits where a "D" or "F" grade was received unless the course is required for graduation or a grade of "C" is required for the degree.

Veterans should pay special attention to add/drop deadlines and consult the campus Veterans Center when any change in enrollment is made. Failing to do so may result in a debt with the VA.

If any veteran or dependent receiving VA educational benefits has been on academic or lack of progress probation for two consecutive semesters, Cuyamaca College will not certify the student's enrollment to the VA for payment of benefits until the cumulative GPA at the GCCCD has improved to a 2.0.

Any veteran who petitions for readmission to the college following disqualification must meet with the veterans' counselor and have the counselor make a recommendation on the petition prior to being considered for readmission.

Veterans should be aware that short-term classes and other flexible schedules may affect benefits. Before registering, check with the veterans' counselor or the Veterans Certifying Official in the Veterans Center in I-113 about the implications of taking short-term courses.

AB13 (VACA) Affidavit for Eligible Veterans & Dependents (Veterans Access, Choice, and Accountability Act)

Veterans or dependents of an eligible Veteran who meet the following requirements shall be exempt from paying nonresident tuition at Cuyamaca College. A "covered individual" for purposes of compliance with the VACA Act and Education Code Section 68075.7 is defined as:

1. A veteran eligible for educational assistance under either the Montgomery GI Bill-Active Duty (MGIB-AD) or Post[1]9/11 GI Bill education benefit programs who resides (lives) in California (regardless of his/her formal state of residence) and enrolls in the community college within three years of discharge from a period of active duty service of 90 days or more.
2. A spouse or child eligible for transferred education benefits under either the Montgomery GI Bill-Active Duty (MGIB-AD) or Post-9/11 GI Bill education benefit programs who resides (lives) in California (regardless of his/her formal state of residence) and enrolls in the community college within 3 years of the transferor's discharge from a period of active duty service of 90 days or more.
3. A spouse or child eligible for benefits under the Marine Gunnery Sergeant John David Fry Scholarship (provides Post-9/11 GI Bill benefits to the children and surviving spouses of service members who died in the line of duty while on active duty) who resides (lives) in California (regardless of his/her formal state of residence) and enrolls in the community college within three years of the Service member's death in the line of duty following a period of active duty service of 90 days or more.
4. After expiration of the three year period following discharge or death as described in 38 U.S.C. 3679(c), a student who qualifies under the applicable requirements above shall maintain "covered individual" status as long the student remains continuously enrolled at the community college, even if the student enrolls in multiple programs, and the student shall continue to be exempt from paying nonresident tuition and other fees that are exclusively applicable to nonresident students. "Continuously enrolled" means enrolled for at least the fall and spring semesters of an academic year (pursuant to California Code of Regulations, Title 5 Section 55701, the academic year does not include summer or other intersessions).

Under this exemption, students are not eligible to receive a CCCPG waiver. Students will still be classified as a non-resident but given an exemption from paying non-resident tuition.

California College Fee Waiver (CalVet)

The children and spouses of U.S. veterans with service-connected disabilities or veterans who have died in service or from service-connected disabilities may be eligible for waiver of College fees. The student must submit the VA letter of eligibility to the Financial Aid Office.

Servicemembers Opportunity Program (SOC)

As a Servicemember Opportunity College, Cuyamaca College provides academic assistance to active-duty personnel which includes program planning and guidance in understanding educational options, acceptance of traditional and nontraditional learning experiences, tutoring, or similar learning opportunities.

"GI Bill®" is a registered trademark of the U.S. Department of Veterans Affairs (VA).

Services for Students

Associated Student Government of Cuyamaca College (ASGCC)

Cuyamaca College supports the organization of students known as the Associated Student Government of Cuyamaca College (ASGCC). The association promotes the following objectives:

- To serve as an active student voice in the operation of the college, including both shared governance and the management of student activities.
- To provide an opportunity for leadership experience and training for students.
- To enhance, wherever possible, the general excellence of the college, uniting the interests of all persons—students, faculty, administration, staff and the local community.

Associated Student Government (ASG) Shared Governance

Since virtually all major decisions made at Cuyamaca College affect students in some way, student input to the various decision-making bodies is relevant, necessary and welcomed. ASGCC has adopted a constitution which established an organized student voice at Cuyamaca College. This voice is facilitated by the ASGCC and is a critical constituency among the college governance structure.

Associated Student Government meetings are held weekly; dates and times are posted on the ASGCC bulletin board. For more information, please call (619) 660-4612. All members of the college community are welcome to attend. Additional information regarding student government is available in the ASGCC Office and the Office of Student Engagement and Belonging.

Associated Student Government Services and Activities

With the support of the student body, the ASGCC plans, organizes, promotes, sponsors and finances a comprehensive program of activities and services for all Cuyamaca College students. The activities program is organized to achieve the following objectives:

- To provide opportunities for the development of the social and cultural interests of the entire college community.
- To afford avenues for the enrichment of each individual's life through sharing and enjoying a group spirit of mutual responsibility, leadership and creativity.
- To promote college spirit and community awareness. The variety of departments, clubs and facilities permits a student to experience a broad spectrum of interest, including but not limited to, music, art, drama, sports, ecology, community service and business.

Office of Student Engagement and Belonging

The Dean of Student Engagement and Belonging acts in an advisory role to the Associated Student Government of Cuyamaca College. Opportunities are provided for students to organize, meet, and work together to extend their academic learning process through campus involvement and participation. By providing this educational culture, the Office of Student Engagement and Belonging helps foster the intellectual, social, and emotional growth of the campus community.

Facilitating student complaints and grievances in compliance with District policies and helping students learn about college policies and procedures is a major component of this office.

In addition, overseeing ASGCC and Student Trustee elections and the yearly commencement ceremonies are some of the primary responsibilities of this office.

Students interested in obtaining club charters and ASGCC candidate petitions should come to the Office of Student Engagement and Belonging which is located in I-121.

Student Benefit "Coyote" Sticker

A Student Benefit "Coyote" Sticker may be purchased for $12. This card entitles a student to free admission to all college-sponsored athletic events, as well as special college and community discounts.

The Student Benefit "Coyote" Sticker not only benefits students, it also helps the ASGCC to support various activities and programs on campus.

For additional information, please contact the Associated Student Government Office at (619) 660-4612.

Honor Society/Phi Theta Kappa

Phi Theta Kappa (PTK) is a national community college honors organization reflecting the hallmarks of scholarship, leadership, service and fellowship. The programs of the Society are designed to give the members opportunities for personal growth in all areas, encouraging the more balanced individual. The organization was created in 1918. Cuyamaca College has an honor society chapter, Alpha Pi Omicron. The requirements for admission as a provisional member are:

- Academic excellence as defined by a GPA of 3.5 or better,
- Must have completed a minimum of twelve semester units at Cuyamaca College that qualify for an Associate Degree program, and
- Each prospective student must be invited to join, and pay a non-refundable administration processing fee to the national organization of $100 at the time of joining. EOPS and CalWORKs students may have their registration fees waived.

College Student Organizations/Clubs

Cuyamaca College offers a wide spectrum of special interest and program-related clubs for student participation.

Information on how to organize a new club or join an existing one is available in the Office of Student Engagement and Belonging. College clubs include Art, Automotive, Phi Theta Kappa, Engineering and many others from which to choose.

An Inter-Club Council, consisting of representatives from each college club on campus, exists to coordinate events and activities and share ideas.

In accordance with Sections 76035, 32050 and 32051 of the Education Code of the State of California, the Governing Board of the Grossmont-Cuyamaca Community College District has ruled that secret fraternities, sororities or clubs may not be formed. Moreover, Section 32051 of the Education Code forbids the practice of hazing by organizations or individuals either on or off the Cuyamaca College campus.

Cultural Activities

As part of the educational offering, Cuyamaca College presents a year-long series of cultural events. Among the presentations are lectures by

persons of note in the political and science disciplines, artists in the fields of music and dance, art festivals, film series, and other events that add variety to the intellectual and cultural life of the college community. These include both day and evening programs which are open to students and the general public.

A selected day each month serves as "College Hour," when college-wide and specialized activities are held as enriching experiences outside of classroom academic life.

Bookstore

All Cuyamaca textbook sales will be facilitated online at https://cuyamaca.bncollege.com/.

CalWORKs S.T.E.P.S.

The CalWORKs (California Work Opportunities and Responsibility to Kids) S.T.E.P.S. (Success Through Education Produces Self-Sufficiency) Program helps students who receive family cash assistance fulfill their Welfare-to-Work program requirements and provides additional support services. Eligible students receive assistance with arranging subsidized child care, obtaining necessary textbooks and supplies, and providing on-campus, paid work study. The CalWORKs counselors work with each student to develop an education plan that leads to self-sufficiency. In addition to providing counseling services, counselors help students access campus and community resources.

If you are a current Welfare-to-Work participant, or believe that you may be eligible for family cash aid, contact the CalWORKs S.T.E.P.S. office in the Student Services Bldg G-300 at (619) 660-4340. Let us be your liaison with the County CalWORKs Welfare-to-Work staff.

CalWORKs Mission Statement

To empower CalWORKs parenting students in achieving their educational and career goals and to promote success and equity two generations at a time.

Career Center

The Career Center provides career and employment development services to students, staff, faculty, and community members through career exploration, assessment, goal setting, and access to current labor market information. Resources are available in both print and digital formats, along with workshops, career fairs, and individual appointments.

Career assessments help students identify their interests, skills, values, and personality to support informed decision-making, while workshops throughout the year build career readiness and essential workplace competencies. The Center also offers up-to-date occupational data on local, state, and national trends, including salaries and in-demand skills for priority industries in San Diego. Students can receive assistance with job search strategies, resume and cover letter development, interview preparation, and building professional skills. A computer lab is available for career research and employment-related activities.

The Career Center is located in Office I-223 on the second level of the Student Center.

Child Development Center

The Child Development Center serves children of students, faculty, staff, and community families. The program philosophy reflects a caring community of learners, centered on a partnership of families, children, and teaching staff, with respect and value for each participant. The Center is an integral component of the Child Development Program and serves as the campus laboratory school, providing mentoring and support for our Child Development students as they prepare to become early childhood educators. Under the supervision and direction of Child Development faculty and Center staff, students from many academic programs complete observations and assignments in the lab setting. The Center coordinates programs with different agencies to provide model educational experiences for both children and Child Development students, such as the Intergenerational Garden. The Center is open year round, following the college schedule for closures. Hours of operation are Monday through Friday, 7:30 a.m. to 5:30 p.m. The Center accepts children from 18 months to 5 years old (pre-kindergarten). For more information, call (619) 660-4660.

Cooperative Agencies Resources for Education (CARE)

CARE is a state-funded program designed to recruit and assist single parent students who are EOPS eligible. CARE eligibility requires that the student or their dependent child be a current recipient of CalWORKs/TANF, and the student must have one child under the age of 14.

CARE provides support services and possible grant funds. The CARE counselor works with each student to promote academic success and assist students in attaining their career and vocational goals. For more information contact the CARE program in the EOPS office located in Bldg G-300, or call (619) 660-4293. Visit us at our website at www.cuyamaca.edu/student-support/additional-support-and-assistance-programs/care/index.php (http://www.cuyamaca.edu/student-support/additional-support-and-assistance-programs/care/).

Counseling

The Cuyamaca College Counseling Department is committed to promoting equity and success using student-centered approaches that empower students to make informed decisions affecting educational, career and personal goals. All departments offer counseling online. All counseling services are available in-person and online. We are located in G-200 of the Student Services Building. Learn more about our services at www.cuyamaca.edu/counseling (http://www.cuyamaca.edu/counseling).

Academic Counseling

Planning is an important step in achieving academic success. All students are encouraged to meet with a Counselor to develop a comprehensive educational plan.

Career Counseling

The Counseling Department, in conjunction with the Career Center, specializes in assisting students in choosing a college, a particular major and/or career goal.

Transfer Planning & Advising

The Counseling Department, in conjunction with the Transfer Center, provides the most current information to assist in the smooth transition to four-year colleges and universities.

Personal Counseling

The Counseling Center is staffed with Counselors who offer individual counseling for students who are dealing with personal and interpersonal challenges that impinge upon their academic success.

Counseling Courses

Cuyamaca College offers a number of counseling courses to benefit students in, personal, academic and career success. For a complete listing of courses, see the Course Description section of the catalog.

Cuyamaca Cares

In keeping with AB 801, AB 1747, AB 1995, Cuyamaca College has established the Cuyamaca Cares program to assist students in transition. As part of this program, verified homeless students enrolled at Cuyamaca College or both Cuyamaca College and Grossmont College may be eligible for the following:

- Priority enrollment (Group 1)
- California College Promise Grant fee waiver, which waives the $46/unit enrollment fee
- Use of Shower Facilities
  Cuyamaca College offers showers to all current Cuyamaca students in the locker rooms located in the Athletics Department Gym (Building D). You do not have to be an athlete to use the showers. To use the showers, please check-in with the Athletics front desk in room D-301. Lockers are available in the locker room to secure your belongings while you shower. Hours of operation: Monday – Saturday 7:00am - 6:00pm.
- Food Pantries
  Please visit the Cuyamaca Cares web page for information on food pantries: www.cuyamaca.edu/student-support/cuyamaca-cares/index.php (http://www.cuyamaca.edu/student-support/cuyamaca-cares/)

For more information, students can contact:

- Rachel Andersen, Financial Aid Homeless Youth Liaison
  Financial Aid Office (619) 660-4206
  Rachel.Andersen@gcccd.edu (rachel.andersen@gcccd.edu)
- Kaylin Rosal, Cuyamaca Cares Manager
  Cuyamaca.Cares@gcccd.edu

Cuyamaca Rising Scholars

Cuyamaca College is resolved to facilitate the successful navigation of formerly incarcerated students through the admissions, registration, financial aid, and other processes at the college. The Cuyamaca Rising Scholars Program provides college support services for students who are justice-involved, formerly incarcerated, on probation, or who have parole supervision. The Rising Scholars Program offers:

- Priority Registration
- Mentorship
- Rising Scholars Virtual Community Group
- Enrollment Support
- Laptop and hotspot rentals for the semester
- Tutoring
- Transfer Guidance
- Referrals to campus support services and community resources
- Specialized Counseling
- Career Exploration
- Job Readiness

In order to obtain the resources and support services needed to achieve academic and career goals, interested students should visit the Rising Scholars website at www.cuyamaca.edu/student-support/counseling-center/rising-scholars.php (https://www.cuyamaca.edu/student-support/counseling-center/rising-scholars.php).

Disabled Students Programs & Services (DSPS)

Disabled Students Programs & Services (DSPS) provides support services to students with disabilities to enhance their opportunities to experience educational success.

Students who have a verifiable disability and require access to support and assist with their educational needs such as disability management, academic counseling, assistance with application to the college, registration assistance, priority registration, assistive technology, alternate media, specialized equipment, preferential seating, extended time for exams/quizzes with test proctor, ASL interpreters and closed captioning, note-taking, and speech-language assessment/intervention.

The college recognizes the need to accommodate students with documented disabilities to the greatest extent possible while supporting the student's course of study and the integrity of the student's degree. Contact the Main DSPS Office-G238 for further information at (619) 660-4239, Video phone (619) 567-4275 email: cuyamaca.dsps@gcccd.edu. Contact for the High Tech Center room C-114 (619) 660-4299 email: cuyamaca.htc@gcccd.edu (cuyamaca.dsps.htc@gcccd.edu). Contact for the Test Proctor room C-114 (619) 660-4577 cuyamaca.testproctor@gcccd.edu (cuyamaca.dspstesting@gcccd.edu).

Questions regarding accessibility, Sections 504 and 508, Americans with Disabilities Act, Title 5 regulations, addressed with DSPS personnel.

Note: Affiliation with DSPS is not mandatory in order to receive Authorized Academic Adjustments. It is the student's responsibility to share their Authorized Academic Adjustments with Instructors. For more information, contact the college ADA-504 Coordinator.

District Public Safety

The District provides for public safety, police services to the college community and their property on college grounds, facilities, and parking lots through the contract with the San Diego Sheriff's Department.

Sheriff's deputies assigned to the two campuses of the district are sworn officers in compliance with the California Education Code and the California Penal Code. They have the same full law enforcement powers and responsibilities as local police and sheriff's deputies in your home community.

The San Diego Sheriff's Department has established Memorandums of Understanding (MOUs) with local law enforcement agencies in whose jurisdictions the two colleges are located. The San Diego Sheriff's Department has primary operational responsibility for law enforcement and investigative services on college district property, with the assurance that local law enforcement agencies can be called for assistance and mutual aid as appropriate. Copies of these agreements are available to the public at the San Diego Sheriff's headquarters at 9621 Ridgehaven Court, San Diego, CA 92123.

Public Safety Contact Information

Call 911 in an emergency

- Life-threatening situation
- Medical emergency
- Missing persons
- Crime in progress
- Fire
- Major disturbance

Call (858) 868-3200 to contact law enforcement for a nonemergency

- Crime report
- Suspected suspicious activity

District Property

District property may not be removed from the campus without prior written authorization from the Division Dean or area supervisor. Unauthorized removal of district property from the campus is a violation of the law and violators may face prosecution.

Crime Prevention

It is the goal of the Sheriff's Department to inform students and staff in a timely manner of any criminal activity or security problem that may pose a reasonable threat to their safety. Information will be provided to students, faculty and staff through several district notification systems (District phones, classroom emergency phones, District Mass Notification system, and District email).

Individuals who need to be on campus other than during regular scheduled work hours must secure authorization from the department chairperson or supervisor prior to their arrival. Public Safety should also be notified of their presence. Campus rooms and areas are protected by intrusion alarms. It is the responsibility of those using rooms, offices or other areas to lock access doors, turn off lights and close all windows. Facilities Services staff and Public Safety will check many campus areas during off-hours, but the primary responsibility for security lies with the user.

Crime Statistics

The Clery Act requires that institutions disclose statistics for offenses committed in certain geographic locations associated with the institution. A crime should be included in the annual security report only if it occurred in one of the following locations: on campus, in or on a non-campus building or property, or on public property within or immediately adjacent to and accessible from the campus. All crimes, including hate crimes, must be disclosed by geographic location.

The daily crime log is available at the Public Safety office.

On Campus: Any building or property owned or controlled by an institution within the same reasonably contiguous geographic area and used by the institution in direct support of, or in a manner related to, the institution's educational purposes.

On Public Property: All public property, including thoroughfares, streets, sidewalks, and parking facilities, that is within the campus, or immediately adjacent to and accessible from the campus.

Smoke Free Campus

In accordance with Board Policy 3570, Cuyamaca College is a smoke-free/tobacco-free facility. Violation of this policy will result in appropriate disciplinary penalties for both students and employees. Any District public safety official may warn or cite any person who is in violation of this policy.

Pets on District Property

The District is closed to all animals, with the exception of service animals. See AP 3440 Service Animals and Other Animals on District Property for more information.

Police Services Complaint Procedure

The Sheriff's Department realizes it must be responsive to all persons in the community. If you are not satisfied with the performance of any members of the Sheriff's Department, we need to know the specifics. The District and the Sheriff's Department pledge to respond swiftly, thoroughly, and fairly to all reports of unsatisfactory service. To file a written complaint, go to the District Public Safety Office or visit Commendations & Complaints | San Diego County Sheriff (https://www.sdsheriff.gov/i-want-to/file/commendations-complaints).

Lost & Found

Lost and Found items should be returned to CAPS. To check if an item has been turned in, call (619) 644-7654 or stop by the Parking Services Office.

Extended Opportunity Programs and Services (EOPS)

The EOPS Program at Cuyamaca College is designed to recruit, inform and assist students who have been identified as economically and educationally disadvantaged. Eligible students are assisted by qualified counselors who provide the necessary academic and personal support services to enable them to succeed at Cuyamaca College. Services may include, but are not limited to, personal and academic counseling, transfer advising, peer advising and advocacy, financial assistance in the form of book grants, orientations, seminars, and courses for student success.

The EOPS office is located in the Student Services Bldg G-300. You may contact us at (619) 660-4204 or visit our website at www.cuyamaca.edu/student-support/additional-support-and-assistance-programs/eops/index.php (http://www.cuyamaca.edu/student-support/additional-support-and-assistance-programs/eops/).

Unlimited Potential! (UP!) Program

The UP! Program, sponsored by EOPS and Financial Aid, is designed to assist students who have been in foster care or legal guardianships, as well as students who are unaccompanied homeless youth, age 17 to 26. Students may receive EOPS and/or CARE services as well as counseling case management, personalized financial aid assistance, resource referrals, mentoring, life skills workshops, and cohort building events and orientations.

The program is located within the EOPS office in the Student Services Bldg G-300. You may contact us at (619) 660-4204 or visit our website at www.cuyamaca.edu/student-support/additional-support-and-assistance-programs/eops/unlimited-potential-up-program.php (http://www.cuyamaca.edu/student-support/additional-support-and-assistance-programs/eops/unlimited-potential-up-program.php)

Financial Aid

Purpose of Financial Aid

The purpose of financial aid is to help students who might not otherwise be able to attend school. Although the primary responsibility for meeting college costs rests with the student and/or his or her family, it is recognized that many families have limited resources and are unable to meet the cost of post-secondary education. For this reason, financial aid programs have been established to provide assistance to students with documented financial need. Financial need exists when the cost of education exceeds the resources available to a student. The cost of education includes fees, books and supplies, food and housing, personal expenses and transportation. Student earnings from employment, as well as savings, veterans benefits, and/or expected contributions from parents' income and assets, are some examples of the resources considered available to a student for the cost of education.

Financial need is determined by the information provided by applicants on the Free Application for Federal Student Aid (FAFSA) or the California Dream Act application (CADAA). Cuyamaca College will attempt to meet the need by offering assistance through the financial aid programs available.

Grossmont-Cuyamaca Promise Program

Free college for qualified students! Promise Program Requirements:

- Be a California resident, or eligible AB540 nonresident.
- Enroll full-time (at least 12 units)
- Disability students may contact Disability Services at Grossmont College or Cuyamaca College regarding qualifying for a reduced course load of 6 units.
- Submit a Financial Aid Application
- Fill out a FAFSA (U.S. citizens or eligible noncitizens) or CA Dream Act (Eligible nonresident students)

Go to Grossmont-Cuyamaca College Promise (gcccd.edu) (https://www.gcccd.edu/promise/) to find out how!

Financial Aid Programs

Grants

California College Promise Grant (formerly the Board of Governor's fee waiver)

The promise grant is a state program that waives the enrollment fee for students who are residents of California (or are eligible under AB540 or AB 1899) and have financial need. Students will be considered for a promise grant as part of the financial aid application process and may apply by completing a financial aid application (FAFSA or California Dream Act application). **Please note that refunds are not retroactive to a prior semester.**

Minimum Requirements for Maximum Success

Once you've qualified for the fee waiver, it's important to ensure that you're meeting the academic and progress standards in order to avoid losing the fee waiver.

Academic – Sustain a GPA of 2.0 or Higher

If your cumulative GPA falls below 2.0 for two consecutive primary terms (fall/spring semesters, or fall/winter/spring quarters), you may lose your fee waiver eligibility.

Progress – Complete at Least 50% of Your Coursework

If the cumulative number of courses you successfully complete falls below 50% in two consecutive primary terms (fall/spring semesters or fall/winter/spring quarters), you may lose your fee waiver.

Combination of Academic and Progress Standards

Any combination of two consecutive terms of cumulative GPA below 2.0, and/or cumulative course completion less than 50% may result in loss of fee waiver eligibility.

How to Regain Eligibility

If you lose eligibility for the fee waiver, there are a few ways that you can have it reinstated:

- Improve your GPA or Course Completion measures to meet the academic and progress standards.
- Successful appeal regarding extenuating circumstances.
- Not attending your school district for two consecutive primary terms.

The appeals process for extenuating circumstances includes:

- Verified accidents, illness or other circumstances beyond your control
- Changes in economic situation
- Evidence of inability to obtain essential support services
- Special consideration factors for CalWORKs, EOPS, DSPS.
- Disability accommodations not received in a timely manner.

Students appeal through the Admissions & Records Office.

Please note that foster youth and former foster youth (age 24 years and younger) are not subject to loss of the fee waiver under these regulations.

Bureau of Indian Education: The BIE's mission "is to provide quality education opportunities from early childhood through life in accordance with a tribe's needs for cultural and economic well-being, in keeping with the wide diversity of Indian tribes and Alaska Native villages as distinct cultural and governmental entities." The Bureau of Indian Education has established links to various scholarships to be used by qualified Native Americans students. The American Indian scholarships can be found on the BIE website www.bie.edu (http://www.bie.edu). Individual grants and scholarships are awarded based on the specific requirements outlined by each nation, tribe, and Alaskan Village. The educational department of each nation, tribe, or Alaskan Village can assist students in applying for grant and scholarship. To receive financial assistance most nations, tribes, and Alaskan Villages require that their students complete the FAFSA as well as any other forms required by individual financial aid departments. In addition, each nation, tribe, and Alaskan Villages will determine blood requirements to be considered for new membership in the individual nations, tribes, or Alaskan Villages.

Cal Grants: There are three types of Cal Grants, administered by the California Student Aid Commission (CSAC). These grants are for California residents and other qualified non-residents who will be attending a California college or university. To apply for Cal Grant A, B and C, submit a FAFSA or California Dream Act application and a GPA Verification form postmarked by March 2, prior to the academic year. For more information on Cal Grants visit www.csac.ca.gov (http://www.csac.ca.gov). For GPA verification, once a student has completed 16 degree applicable units, the Cuyamaca College Admissions and Records Office will automatically send the GPA to CSAC.

Cal Grant Community College Deadline: Community college students who miss the March 2 priority deadline may continue to apply for a limited

number of special community college Cal Grants (A or B) until September 2. Students must list a California community college on their FAFSA or California Dream Act application and submit the FAFSA and a GPA Verification form postmarked by September 2. For GPA verification, once a student has completed 16 degree applicable units, the Cuyamaca College Admissions and Records Office will automatically send the GPA to CSAC.

Cal Grant A: Cal Grant A is an entitlement or a competitive grant administered by the California Student Aid Commission (CSAC). It is targeted toward students with high GPAs and moderate income. This grant pays for tuition at tuition charging institutions. Most students are not eligible to receive funding while enrolled at a community college. Community college students have their grants put on "community college reserve" for up to three years. Once the students transfer to a tuition charging institution, their grant will be activated. Students who have one or more dependent children age 17 or younger that they support can receive funding at community colleges for the living allowance.

Cal Grant B: Cal Grant B is an entitlement or a competitive grant. It provides a living allowance for low-income student and tuition payment for students' second through fourth year of study at tuition charging institutions. For the current academic year maximum amount for the living allowance see the California Student Aid Commission's website at csac.ca.gov (https://www.csac.ca.gov/).

Cal Grant C: Cal Grant C is a competitive grant for vocational students who are enrolled in programs from nine months to two years in length. For the current academic year maximum amount for a book stipend see the California Student Aid Commission's website at csac.ca.gov (https://www.csac.ca.gov/).

Student Success Completion Grant: A need-based financial aid program available for Cal Grant B and C recipients attending a California Community college to encourage accelerated completion of the student's educational goal by encouraging full time enrollment. The SSCG award is $1298 for enrollment of 12-14.5 units per semester. The SSCG award is $4000 for enrollment of 15 or more units. Funding is limited. The program is funded by the State of California and administered by the State Chancellor's Office.

Chafee Grant: The California Chafee Grant program is available for current or former foster youth to use for career and technical training or college courses. The maximum grant amount is $5,000 per year. Students must be enrolled in six or more units each semester to be eligible. For questions regarding eligibility, please contact the Financial Aid Office at (619) 660-4201 or the EOPS Office at (619) 660-4293 or go to chafee.csac.ca.gov/ (http://chafee.csac.ca.gov/).

Federal Work Study (FWS): FWS is a federally-funded program which gives students the opportunity to earn part or all of their financial need by working on campus while in school. The student's wage will be based on the current student hourly wage schedule at time of employment and level of service.

Federal Pell Grant: The Federal Pell Grant is available for undergraduate study until students receive their first bachelor's degree to a maximum of six years of full time study. Federal Pell Grants range per academic year depending upon the "Student Aid Index"(as determined by the federal government), the cost of attendance and the student's enrollment status. Amounts subject to change based on eligibility. Undergraduate students who have submitted a valid Student Aid Report (SAR) may qualify for the Federal Pell Grant.

Federal Supplemental Educational Opportunity Grant (FSEOG): FSEOG is a federal grant program for undergraduate students who have "exceptional need" and who have not received a bachelor's degree.

Scholarships

Scholarships are an untapped fund that is available throughout the year. Learn how to effectively search and apply for scholarships. Learn how you are the key to your own success when searching and applying for scholarships. Apply for Cuyamaca College scholarships online using the Cuyamaca College AcademicWorks scholarship application on our scholarship website. For additional scholarship information, go to www.cuyamaca.edu/financial-aid/index.php (http://www.cuyamaca.edu/financial-aid/).

Loans

William D. Ford Direct Loan: The Direct Loan is a low-interest loan made to the student by the federal government to help the student pay for his or her education. The interest rate is fixed. Grade level one students may borrow a base amount of $3500 (subsidized and/or unsubsidized) per academic year. Grade level two students may borrow a base amount of $4500 (subsidized and/or unsubsidized) per academic year. Additional unsubsidized amounts may also be available. Total borrowing for dependent students may not exceed $31,000 for all undergraduate study. To apply for a Direct Loan, a student must first apply for federal financial aid via the FAFSA.

Subsidized Direct Loan: These loans are available to students who demonstrate financial need. Students who are eligible to apply for a subsidized Direct Loan based upon need qualify to have the federal government pay the interest on their loan while they are in school.

Unsubsidized Direct Loan: These loans are available to students who do not qualify for need-based financial aid. Students are responsible for monthly interest payments (or capitalization of interest) from the date the loan is disbursed.

Other Sources of Funds

Other assistance programs are available for students through government agencies such as the County Department of Social Services, Social Security Administration and Veterans Administration.

Please check with the Career and Student Employment Center regarding job announcements. The Center is located in I-223 in the Student Center.

Withdrawals and Repayment of Financial Aid Funds

Students who receive federal financial aid and completely withdraw from all of their classes before the 60% date of the term require a refund and repayment calculation to determine funds owed back to various federal aid programs by both the college and the student. Unofficial withdrawals, including grades of all F's and/or W's, also require a refund and repayment calculation. Calculations are made according to a formula established by the U.S. Department of Education. Additional information is available in the Financial Aid Office. If you are required to repay funds, you will be billed and have 45 days to repay the funds in full or to set up a repayment schedule. You will be ineligible for any further financial aid at any college in the United States until you have repaid the funds in full or you have set up a repayment schedule and make repayments according to the repayment schedule.

Budgets

Cuyamaca College has a diverse student population which means that people have different economic lifestyles and obligations. The budgets

used by the Financial Aid Office are expressions of average costs for the student population; they are intended to provide sufficient funds for most students in most circumstances. These budgets are not and cannot be intended to meet each person's full financial responsibilities. For a student who comes to Cuyamaca College relatively free of past obligations, these budgets should provide a sufficient economic base for a student to survive financially and attend school.

Since one purpose of the budget is to fairly distribute the available dollars among all eligible students, it is impossible to take into account all of the situations in which people find themselves or all of the consumer choices they make. People make their own budget decisions about what is most important to them. They may choose to share a low-rent apartment in order to have a car, or they may choose to live alone within biking distance of the campus. The choices are there for each individual.

The following budgets[1] for the 2026-27 academic year are based on enrollment of six (6) or more units at Cuyamaca College:

Housing Status	Living with parent(s)	Living away from parent(s)
Fees[1]	$1,452	$1,452
Books and Supplies	$1,305	$1,305
Food and Housing	$25,860	$34,516
Personal Expenses	$4,564	$7,608
Transportation	$5,076	$5,076
Total	$36,989	$46,789

[1] Amounts subject to change. Contact the Financial Aid Office or go to www.cuyamaca.edu/financial-aid/index.php (http://www.cuyamaca.edu/financial-aid/) for current budget amounts.

For disabled students, additional allowances may be made for documented special costs that are educationally related but not covered by other assisting agencies. For the current academic year budget, please check with the Financial Aid Office.

Contact the Financial Aid Office, located in the Student Services Building G, for further information regarding eligibility, programs available, applications or other information.

Health & Wellness Center

To promote the health and well-being of students, the Health & Wellness Center is maintained by a registered nurse who evaluates, educates and cares for the health needs of Cuyamaca College students and staff. Services are available on a confidential basis and include:

- health screenings (body composition analysis and blood pressure);
- tuberculosis clearance risk assessment and testing;
- basic first-aid and illness/injury assessments; and
- referrals to community health resources.

The Health & Wellness Center is also a health education resource providing up-to-date information on topics related to stress management, nutrition, exercise, sexual assault prevention, substance abuse, birth control, communicable disease control and prevention, and more. Students are encouraged to visit the Health & Wellness Center website (www.cuyamaca.edu/student-support/health-and-wellness-center/index.php (http://www.cuyamaca.edu/student-support/health-and-wellness-center/)) to explore the resources available. Short-term mental health counseling is also available, which offers students the opportunity to improve their well-being by discussing, processing, and working through challenges in their life with trained counselors. For mental health counseling appointments, email cuyamacahealthandwellness@gmail.com, eSARS (web4.gcccd.edu/Cuyamaca/eAdvising/Health/Login.aspx (https://web4.gcccd.edu/Cuyamaca/eAdvising/Health/Login.aspx)) on the mental health counseling website, or call (619) 660-4200. Students can submit a question to a mental health counselor or a nurse via eAdvising (web4.gcccd.edu/Cuyamaca/eAdvising/Health/Login.aspx (https://web4.gcccd.edu/Cuyamaca/eAdvising/Health/Login.aspx)) located on the Health Services and Mental Health Counseling websites (www.cuyamaca.edu/student-support/health-and-wellness-center/mental-health-counseling.php (http://www.cuyamaca.edu/student-support/health-and-wellness-center/mental-health-counseling.php)). Students can submit a question to a Registered Nurse via the Student Portal here: https://gcccd.medicatconnect.com/login.aspx. The mandatory health fee which supports these services also provides for insurance coverage should a student be injured during a supervised, on-campus or school-related activity. Insurance forms are available at the Health and Wellness Center. Students that depend exclusively upon prayer for healing according to the teaching of a bona fide religious sect, denomination or organization may petition for an exemption from the health fee by submitting a written request to the Office of Student Engagement and Belonging. Please contact the Health Center at (619) 660-4200.

High School and Community Relations (Outreach)

The overall mission of High School and Community Relations is to facilitate equitable access and student success by providing community members, prospective students, and current students with useful information regarding college pathways and informing them of the college's programs and services, while encouraging, guiding, and empowering students to pursue higher education. High School and Community Relations, also known as Outreach, is a primary point of access to the institution. Outreach provides comprehensive contact information and general descriptions for many aspects of the institution. The Outreach Department meets the introductory informational needs of the campus community: students, faculty members, staff, prospective students and their family members, and general visitors.

Specific services provided by the Outreach staff include distribution of printed information about the college and its programs, visits to schools for career fairs, college nights, peer advising, interactive presentations, and conducting enrollment workshops at local high schools. Tours of the college campus are also provided.

Outreach invites all prospective students and interested members of the community to take advantage of the programs and services offered. Please contact the High School and Community Relations (Outreach) office, located in G-100 or call (619) 660-4264, cuyamaca.outreach@gcccd.edu.

Institutional Effectiveness, Success, and Equity (IESE)

The Institutional Effectiveness, Success, and Equity (IESE) office advances student success and equity by integrating, aligning, and sustaining evidence-based improvement efforts across the College. IESE provides coordination, support, and collaborative leadership for the college's planning, assessment, evaluation, and equity efforts to advance

the College's mission. We approach this work with a social justice lens to advance equity and excellence. The IESE unit includes the institutional effectiveness, equity, strategic planning, assessment, engagement and validation, and institutional research functions. The IESE Office is located in the E Building 109 suite. For additional information, please contact Brianna Hays, Senior Dean of Institutional Effectiveness, Success and Equity at brianna.hays@gcccd.edu or call (619) 660-4046.

Intercollegiate Athletics

The mission of the Cuyamaca College Athletics Department is to provide all student athletes quality intercollegiate sports that will complement the college's instructional programs, enhance student life on campus, and foster community interest and support.

The Cuyamaca College Coyotes' basketball, cross country, golf, soccer, track & field and volleyball teams compete in the Pacific Coast Conference, which consists of the following colleges: Grossmont, Imperial Valley, Mira Costa, Palomar, San Diego City, San Diego Mesa, San Diego Miramar, and Southwestern.

Cuyamaca College has won conference championships in men's golf, women's tennis, men's and women's soccer, men's and women's cross country, and men's and women's track and field. State championships have been awarded to men's soccer, men's and women's cross country and multiple track and field individual events. Cuyamaca coaches have had numerous coaching excellence awards in soccer, cross country, and track and field.

Student athletes must be continuously and actively enrolled in 12 or more units during the sport season. 24 units must be completed for eligibility between the first and second season of competition. Athletes follow an educational plan and maintain a minimum 2.0 GPA. Authority for eligibility must be verified by the Dean of Athletics. Academic achievement and high level athletic performance is strongly connected for Cuyamaca sports participation. Advancing student athletes to four-year universities is a primary goal of the Athletics Department.

A dedicated counselor is also available to support student athletes with academic planning, support compliance with eligibility, and transfer preparation.

Learning and Technology Resources - LTR

Library

Cuyamaca Library is committed to connecting students with the world of ideas and information.

To this end, the Library fosters student success by leading information literacy efforts.

We excel in:

- teaching information literacy skills for student academic development;
- ensuring equitable access to scholarly and diverse resources of information;
- integrating librarians, programs, and services into the academic curriculum;
- creating comfortable and safe spaces conducive to study, research, and interaction.

Cuyamaca Library has a positive reputation. Students recognize the Library for its attention to service and commitment to instruction. Students consider Cuyamaca Library essential to their success.

Technology

Computer Access: Cuyamaca College has computer labs available for student use in the following locations:

- Tech Mall, E-121
- Stem Center, H-Building

Computer Help Desk: The Help Desk is your best resource for troubleshooting technical difficulties such as login issues for student email, campus network, campus Wi-Fi, library database, or Canvas.

Phone: (619) 660-4395

Email: c-helpdesk@gcccd.edu

Web: www.cuyamaca.edu/helpdesk (http://www.cuyamaca.edu/helpdesk)

Wi-Fi is also available for currently enrolled students who choose to bring their own devices (Cuyamaca Wireless). If you need technical assistance with accessing the Wi-Fi using your student account, our on-site technical staff is available to assist you in the Tech Mall (E-121).

NextUp! Program or Cooperating Agencies Foster Youth Educational Support (NextUp! Or CAFYES)

NextUp is a program housed within EOPS department. The mission of this program is to provide additional services and support to eligible current or former foster youth under the age of 26. The services provided are: priority registration, academic/career/personal counseling, book and supply grants, tutoring, independent living and financial literacy skills support, frequent in-person contact, transportation assistance, unmet need grants, referrals to health services, mental health services, housing assistance, and other related services. The NextUp program is in the EOPS Office located in the Student Services Bldg G-300. Contact NextUp at (619) 660-4689. Eligibility requirements and more information can be found at www.cuyamaca.edu/student-support/additional-support-and-assistance-programs/eops/index.php (http://www.cuyamaca.edu/student-support/additional-support-and-assistance-programs/eops/).

Puente

Puente means bridge in Spanish.

The Puente Program is a nationally recognized academic program designed to help students adjust to college life and prepare for transfer to four-year colleges and universities. The program is unique in that it explores the Latino/a/e experience in college. However, Puente is open to, and welcomes, all students. Puente specifically focuses on Counseling, English Instruction, and Mentoring. Students enrolled in the Puente Program work closely with their Counselor, English Instructor, and Mentor to prepare for transfer to four-year colleges and universities. For additional information, please visit cuyamaca.edu/puente "Once a Puentista, always a Puentista!"

Puente Program benefits:

- Priority Registration
- Career, Academic, and Personal Counseling

- Transfer Support
- Writing Skills Development
- Mentorship
- Cultural connection and community building (Become a part of a familia)
- Access to Puente scholarships
- Networking Opportunities
- Cultural and college field trips, conferences, and workshops
- Special admission consideration to San Diego State University
- Culturally Relevant Curriculum in Puente courses
- Lifelong friendships
- Personal Growth

For additional information please visit www.cuyamaca.edu/student-support/counseling-center/puente.php (https://www.cuyamaca.edu/student-support/counseling-center/puente.php).

Queer Student Center

It is the mission of the Cuyamaca College Queer Student Center to prioritize LGBTQIA2s+ students and create an environment that enhances the well-being of its community, sees strength in individuality, and promotes dignity and pride. We focus on the basic rights of our LGBTQIA2s+ students and offer assistance with housing resources, food resources, and resources for mental wellness. The Queer Student Center also serves as a safe space for students to study, hold study groups, and attend workshops facilitated by the Queer Student Center staff. Students who are in need of advocacy with social services are welcome to visit the Queer Student Center. The center is located in Room I-107, Phone: (619) 660-6517.

Resources for Immigrant Students of Education (RISE)

Borderless Spaces is a program for undocumented students as a result of the 2013 California Dream Act legislation. The program is designed to assist undocumented students with counseling, assistance with financial aid, peer advocacy, book loans, specialized workshops and cohort building events and orientations. The program is located within the Annex 2 center. You may contact us at (619) 660-4204 or visit our website at www.cuyamaca.edu/student-support/additional-support-and-assistance-programs/eops/index.php (http://www.cuyamaca.edu/student-support/additional-support-and-assistance-programs/eops/)

Student Picture I.D. Card

A Student Picture I.D. Card is required for access to library check-out services and may be required for some laboratory classes. After you have completed the registration process (new students must wait 24 hours), please come to one of the two Student Picture I.D. Offices for this **free** card. You must present a valid government issued identification card. The offices are located in the Tech Mall (Room E-121, Business & Technology Building) and in Admissions & Records, in the Student Services Building, Room G-104. Every Cuyamaca College student is allowed one Student Picture I.D. Card while attending Cuyamaca College. Phone: (619) 660-4649.

Together We Rise Latinx Student Center

The Together We Rise Latinx Student Center provides a space for community building, connection, and support with a focus on Latinx students. To advance the College's vision of Equity, Excellence, and Social Justice, the Together We Rise Latinx Student Center offers peer mentoring and events for students and families to strengthen connections to the campus and build a strong sense of community. The Center regularly hosts engagement events, cultural celebrations, and workshops to support student retention and success. The Center also serves as a lounge space for students to study, hold study groups, access computers, and receive higher educational legal assistance. The center is located in Annex 2, Phone: (619) 660-4628.

Transfer Center

The Transfer Center assists students with the process of transferring to four-year colleges and universities by providing the most current information available to ensure a smooth transition. The community college is the crucial link between the K-12 system and four-year academic institutions and the Transfer Center works closely with student services and instruction to strengthen the transfer process at Cuyamaca College.

The Transfer Center provides a variety of services including: hosting four-year university representatives, online counseling, transfer fairs, application workshops and Transfer Achievement Celebration to honor those students who have been admitted to the four-year university. For additional information visit cuyamaca.edu/transfer (https://www.cuyamaca.edu/transfer) or email us at Cuyamaca.transfer@gcccd.edu.

Tutoring

We Make Good Students Better! Tutoring services are free, and students may begin using services at any point in the semester. Learning Assistants -- most of whom are current or former Cuyamaca students, themselves – help students adapt to college, learn course skills and content, refine general study skills and strategies, and become more confident, independent learners. Tutoring is offered in online, email, and in-person formats through various campus locations as well as through the Cuyamaca Virtual Tutoring Center. For more information and/or to request an appointment, please click on the blue “Tutoring” link in your course Canvas container, email cuyamaca.tutoring@gcccd.edu, visit the Tutoring website at www.cuyamaca.edu/tutoring (http://www.cuyamaca.edu/tutoring), or leave a voicemail at (619) 660-4525.

Academic Resource Center

The ARC is located on the first floor of the Library building in room C-102. Tutoring is available to support student learning in a wide variety of academic and career education programs. Individual, group and online tutoring sessions are available by appointment. (Lab tutoring hours are also available when scheduling permits). Please visit our website for more information and current hours at www.cuyamaca.edu/tutoring (http://www.cuyamaca.edu/tutoring), email Cuyamaca.tutoring@gcccd.edu, or leave a voicemail at (619) 660-4525.

STEM Achievement Center

The STEM Achievement Center is located in the H building, and provides individual and group tutoring services in the Sciences, Engineering, and Mathematics. Students have access to graphing calculators and textbooks check-out during tutoring hours. The STEM Achievement Center hosts a 36 station computer lab and Wi-Fi for student to use. Please, visit our website for more information and current hours at www.cuyamaca.edu/tutoring (http://www.cuyamaca.edu/tutoring), email Cuyamaca.tutoring@gcccd.edu, or leave a voicemail at (619) 660-4525.

Writing Center

The Writing Center, located in B-167, provides support for students in any course who would like assistance with reading, writing, or ESL skills. Individual, group and online tutoring sessions are available by appointment. The Writing Center's computer lab with wireless Internet access provides a supportive environment in which students may work on course-related assignments. Please visit our website for more information and current hours at www.cuyamaca.edu/tutoring (http://www.cuyamaca.edu/tutoring), email Cuyamaca.tutoring@gcccd.edu, or leave a voicemail at (619) 660-4525.

Umoja

Umoja: a Kiswahili word meaning Unity

UMOJA is a student success program and commUNITY designed to enhance the educational experiences of African American, and other historically underrepresented students. We provide support for personal, educational, and professional development through counseling, community building, and academic and personal growth courses. For additional information, please visit www.cuyamaca.edu/umoja (http://www.cuyamaca.edu/umoja).

Umoja Program Benefits

- Priority Registration
- Career, Academic, and Personal Counseling with a dedicated Umoja Counselor
- Tutoring and Academic Support
- Fellowship and Comradery with Staff and Fellow UMOJA Students
- Deeper understanding of African American literature and themes
- Opportunities to attend Umoja sponsored conferences and events
- Cultural Field Trips
- HBCU, CSU, and UC College Tours
- Access to Umoja Community scholarships
- Increased self-confidence
- Lifelong friendships
- Community Service Opportunities

Academic Policies and Procedures

Academic Honesty/Dishonesty Policies

Academic honesty is required of all students. Plagiarism—to take and pass off as one's own work the work or ideas of another—is a form of academic dishonesty. Penalties may be assigned for any form of academic dishonesty. Questions or clarification as to how to include the ideas and statements of others or how to avoid other forms of academic dishonesty should be discussed with your instructor to avoid unintentional academic dishonesty.

Your instructors are eager to help you succeed in your studies at Cuyamaca College. But success means more than just receiving a passing grade in a course. Success means that you have mastered the course content so that you may use that knowledge in the future, either to be successful on a job or to continue with your education.

Your success depends on a combination of the skills and knowledge of your instructors and your own hard work. You will reach your future goals only if you gain new knowledge from every course you take. That knowledge becomes yours, and can be used by you only if it is gained through your own personal efforts. Receiving a grade in a course without acquiring the knowledge that goes with it diminishes your chances for future success.

While in college, you are also shaping the principles which will guide you throughout the rest of your life. Ethical behavior and integrity are a vital part of those principles. A reputation for honesty says more about you, and is more highly prized, than simply your academic skills.

For that reason, academic honesty is taken very seriously by the Cuyamaca College faculty. The following guidelines have been prepared so that you will understand what is expected of you in maintaining academic honesty.

1. Academic dishonesty is normally dealt with as an academic action by the instructor, reflected in the student's grade in the particular course rather than through college disciplinary procedures.
2. No specific departmental, divisional or institutional procedures are established for academic dishonesty other than the normal process for review and appeal of an instructor's grading procedures.
3. Other disciplinary procedures (e.g., dismissal, removal, etc.) will be used only if the student disrupts the class or is otherwise abusive or threatening or violates any other college policy.
4. Academic dishonesty is defined as the act of obtaining or attempting to obtain credit for work by the use of any dishonest, deceptive or fraudulent means. Examples of academic dishonesty would include but not be limited to the following:
    1. Copying either in part or in whole from another's test or examination;
    2. Discussion of answers or ideas relating to the answers on an examination or test when such discussion is prohibited by the instructor;
    3. Obtaining copies of an exam without the permission of the instructor;
    4. Using notes, "cheat sheets," or otherwise utilizing information or devices not considered appropriate under the prescribed test conditions;
    5. Altering a grade or interfering with the grading procedures in any course;
    6. Allowing someone other than the officially enrolled student to represent the same;
    7. Plagiarism, which is defined as the act of taking the ideas, words or specific substantive material of another and offering them as one's own without giving credit to the source.

Options may be taken by the faculty member to the extent that the faculty member considers the cheating or plagiarism to manifest the student's lack of academic performance in the course. One or more of the following actions are available to the faculty member who suspects a student has been cheating or plagiarizing:

1. Review – no action.
2. An oral reprimand with emphasis on counseling toward prevention of further occurrences.
3. A requirement that work be repeated.
4. A reduction of the grade earned on the specific work in question, including the possibility of a failing grade or no credit for the work.
5. A reduction of the course grade as a result of item 4 above including the possibility of a failing grade for the course, if a failing grade for the work produces such a result.
6. Referral to the office of the Dean of Student Engagement and Belonging for further administrative action, such as suspension or expulsion.

Computer Software Copyrights

Computer software is protected by the Federal Copyright Act of 1976. The following guidelines apply to the use of college-acquired software:

1. No copies of software may be made except in the following cases:
    1. Normally an archive copy of software is allowed for protection against accidental loss or damage. Archive copies of software should be securely stored and not used except to be recopied if the operational copy becomes damaged.
    2. Some software, when site licensed by the producer, may permit unlimited copies for use within the college. Such copies must be made only by the person or persons authorized to make copies by the terms of the site license. In this case, duplicates shall be clearly labeled as Cuyamaca College copies of licensed software.
    3. Some software, in particular programming languages, allow code to be copied and incorporated within user-written software. Such use is generally permitted as long as the software is for personal use and not sold, rented or leased. If distribution or commercial use is intended for software so produced, clearance must be secured from the copyright owner for the use of the incorporated code, and with the college for use of the equipment during production.
2. The intended or unintended piracy, damage, alteration or removal of any college-acquired software may be treated as an act of theft or malicious destruction. Cuyamaca College may elect not to extend computer services to persons who have been identified as engaging in these acts.
3. The user is responsible for complying with whatever terms or conditions are specified in the license agreement or copyright statement which accompanies individual software acquisition.

Academic Renewal

When previously recorded Cuyamaca College work is not reflective of a student's present level of demonstrated ability, this policy will allow alleviation of substandard work. Academic renewal cannot be used to

set aside course work which has been used to meet degree, certificate, or certification requirements.

When courses are alleviated, grades in courses remain on the student's record but are not used in the computation of the GPA. Academic renewal does not provide an exception to the course repetition policy.

Criteria

Substandard coursework completed in the Grossmont-Cuyamaca Community College District may be alleviated subject to all of the following criteria:

1. The student has requested the action formally and has presented evidence that coursework is substandard and not representative of present scholastic ability and level of performance.
2. At least one year has elapsed and the student has completed, at any accredited post-secondary institution, at least 12 units of coursework with at least a 2.5 GPA or 18 units with a 2.0 GPA. All courses taken subsequent to the course(s) or semester to be alleviated will be used in computing the GPA. Units completed with P/NP will not count towards the fulfillment of this requirement.
3. The student may select Option I or Option II. The student may not apply for both.

Option I: A maximum of any 30 units of substandard coursework (grades D or F only) may be alleviated. This option may be approved twice subject to a total of 30 units.

All attempts for substandard coursework (grades D or F) of a single course will be automatically included in the academic renewal, but will only count once toward the 30 unit limit.

Option II: Two complete semesters in which the semester GPA is below 2.0 may be alleviated. Courses taken at Cuyamaca College and Grossmont College during the same semester shall be combined and counted as one semester.

Procedure

1. The student must formally request a review of substandard work to be alleviated.
2. All transcripts from previously attended colleges must be on file in the Admissions & Records Office.
3. The Petitions Committee shall review all requests for academic renewal. The committee will determine if all criteria have been met. Determination by the committee shall be final.
4. In the event of admission to Cuyamaca College as a transfer student from other colleges where course work has been alleviated, such alleviated course work will be counted toward the maximum of alleviated work allowed.
5. When such action is taken, the student's permanent academic record shall be annotated so that it is readily evident to all users of the record that no work taken during the alleviated semester(s), even if satisfactory, may apply toward degree requirements. However, all work will remain legible on the record ensuring a true and complete academic history.
6. Academic renewal does not provide an exception to the course repetition policy.
7. Academic renewal actions are irreversible.

Access to Educational Programs

It is the policy of the Grossmont-Cuyamaca Community College District Governing Board that, unless specifically exempted by statute, every course, course section or class reported for state aid, wherever offered and maintained by the District, shall be fully open to enrollment and participation by any person who has been admitted to Cuyamaca College and who meets such prerequisites as may be established pursuant to Title 5 of the California Code of Regulations, Sections 55003 and 58108.

Adding Courses

During the official add period for each class, a student may add courses by following the procedure as outlined in the class schedule. Visit How to Register for Classes (https://www.cuyamaca.edu/admissions/how-to-register-for-classes.php).

Students may only enroll in 18 units per semester or 9 units in summer session.

Students may enroll in more than 18 units per semester or 9 units in summer session with an overload petition. Overload petitions can be submitted prior to the start of the semester if the class is still open and with approval from a counselor. Overload petitions must be submitted with an add code and approval by a counselor.

Attendance Requirements

Instructors are obligated, at the beginning of the semester, to announce their policy regarding excessive absences. When absences exceed the number of hours that a class meets in one week the instructor may drop the student from the class. Failure to attend the first class meeting may result in the student being dropped from the class.

It is the student's responsibility to officially withdraw from any classes not attended and to discuss anticipated absences with the instructor. Make-up work for absences is the responsibility of the student and must be completed to the satisfaction of the instructor.

Auditing Courses

Based on GCCCD Board policy, Cuyamaca College permits auditing of courses as follows:

1. Audit enrollment will not be permitted until students have completed the allowable number of repeat courses. Courses are determined through agreement between the department and the appropriate administrator. Priority class enrollments are given to students desiring to take the course for credit. No student will be permitted to enroll for audit purposes until the day following census.
2. A nonrefundable audit fee of $15 per unit plus any required student or instructional materials fee (e.g., health fee, materials fee) shall be payable at the time of enrollment as an auditor. **Fees are not refundable.**
3. Students enrolled in classes to receive credit for 10 or more semester credit units shall not be charged a fee to audit three or fewer units per semester. If the student drops below the 10-unit level, the $15 per unit audit fee will be assessed.
4. Audit enrollment will be based on "seats available" and will not be used to count toward minimum enrollment requirements. If a class closes after an auditor has been admitted, the auditor may be asked to leave to make room for the credit students. Instructor discretion is strongly recommended. Audit enrollments which allow faculty to be eligible for a large class bonus will not be counted.

5. No student auditing a course shall be permitted to change his or her enrollment in that course to receive credit for that course.
6. Permission to audit a class is done at the discretion of the instructor and with the instructor's signed permission.
7. No credit will be received for auditing a course. The college will not maintain any attendance or academic records for MIS reporting.

Courses that may be audited will be listed in the course schedule.

Cancellation of Courses

Cuyamaca College reserves the right to cancel any course for which there is insufficient enrollment.

Catalog Rights

Catalog rights permit students who are continuously enrolled at the institution to select the catalog year the student will follow for general education and degree/certificate requirements provided the catalog selected is one of the following:

1. The catalog that was in effect at the time they began taking courses at Grossmont Cuyamaca Community College District, or another California Community College, California State University, or a University of California campus, or
2. Any catalog that is or has been in effect during the time that they have maintained continuous enrollment before graduation, or
3. The catalog that is in effect at the time they file an application for a degree or certificate.

Continuous Enrollment

Continuous Enrollment is defined as attendance in one semester or two quarters within an academic year at a California Community College, California State University, or a University of California campus. An official grade (e.g. A,B,C,D, F,W, EW, P,NP, Inc.), must be noted on the permanent record or official transcript. Students who do not attend at least one semester during an academic year or miss two consecutive semesters are not eligible for "continuing student" status. Summer sessions can be used to establish catalog rights as well as to maintain continuous enrollment status.

Common Course Numbering - AB 1111

In compliance with Assembly Bill (AB) 1111, which mandates the adoption of Common Course Numbering (CCN) across all California Community Colleges, several CSU and UC transferable courses have been updated with revised and aligned CCN course numbers and titles. The goal is to streamline the transfer process from California Community Colleges to four-year postsecondary educational institutions and reduce excess credit accumulation. A California community college course with a CCN number foundationally shares the identical course title, description, objectives/outcomes, content, prerequisites, corequisites, enrollment limitation, and a minimum number of units.

The chart below provides a list of courses that were impacted and are effective as of Fall 2025 or Fall 2026. It is a comparison of the former course prefix and number and the new course prefix and number. If you have any questions, please contact your Counselor.

New Course Number & Title	Former Course Number & Title
Effective Fall 2025	
COMM-C1000 Introduction to Public Speaking	COMM-122 Public Speaking
ENGL-C1000 Academic Reading and Writing	ENGL-120 College Composition and Reading
ENGL-C1001 Critical Thinking and Writing	ENGL-124 Advanced Composition: Critical Reasoning and Writing
POLS-C1000 American Government and Politics	POSC-121 Introduction to U.S. Government and Politics
PSYC-C1000 Introduction to Psychology	PSY-120 Introductory Psychology
STAT-C1000 Introduction to Statistics	MATH-160 Elementary Statistics
Effective Fall 2026	
ANTH-C1001 Introduction to Biological Anthropology	ANTH-130 Introduction to Biological Anthropology
ARTH-C1100 Survey of Art from Prehistory to the Medieval Era	ART-140 Survey of Western Art I: Prehistory through Middle Ages
ARTH-C1200 Survey of Art from the Renaissance to Contemporary	ART-141 Survey of Western Art II: Renaissance through Modern
ASTR-C1001 Introduction to Astronomy	ASTR-110 Descriptive Astronomy
ASTR-C1001L-CC Introduction to Astronomy Lab	ASTR-112 General Astronomy Laboratory
BIOL-C1000 Introduction to Biology with Lab	BIO-120 Principles of Biology
BIOL-C1001 Introduction to Biology	BIO-130 General Biology I
CDEV-C1000 Child Growth and Development	CD-125 Child Growth and Development
COMM-C1004 Interpersonal Communication	COMM-120 Interpersonal Communication
ECON-C2001 Principles of Microeconomics	ECON-121 Principles of Microeconomics
ECON-C2002 Principles of Macroeconomics	ECON-120 Principles of Macroeconomics
ENGL-C1002 Introduction to Literature	ENGL-122 Introduction to Literature
HIST-C1001 United States History to 1877	HIST-108 Early American History
HIST-C1002 United States History since 1865	HIST-109 Modern American History
MATH-C2210 Calculus I: Early Transcendentals	MATH-180 Analytic Geometry and Calculus I
MATH-C2220 Calculus II: Early Transcendentals	MATH-280 Analytic Geometry and Calculus II
SOCI-C1000 Introduction to Sociology	SOC-120 Introductory Sociology

Have questions or want to learn more?
Visit: The Common Course Numbering Webpage (https://www.gcccd.edu/ccn/)

Dropping Courses

A student desiring to drop courses or an entire program must use *Self-Service*. The student must initiate this withdrawal prior to the established deadline. Drops during the adjustment period do not appear on the transcript. Drops initiated after the adjustment period will result in a transcript entry of "W," which will be taken into consideration in determining lack-of-progress probation and disqualification. Students must clear all obligations to the college prior to withdrawal.

Late withdrawal from a class after the drop deadline may be authorized in the event of extenuating circumstances. Extenuating circumstances are verified cases of accidents, illnesses, or other circumstances beyond the control of the student. The student must file a petition in the Admissions and Records Office with documentation for review by the Petitions Committee. Late withdrawal results in a "W" on your transcript and no refund of enrollment fees as per Title 5 section 55024 and 58508.

Military withdrawals shall be authorized when a student who is a member of an active or reserve United States military service receives orders compelling a withdrawal from courses. Military withdrawals shall not be counted in progress alert and probation or disqualification calculations.

It is the student's responsibility to officially drop courses they are no longer attending. If a course is not officially dropped, the student may receive an "F" for the course. Petitions to drop a course without a "W", also known as No-Show Petitions will only be accepted within the same fiscal year as the course the student was originally enrolled in.

Students may initiate a request for a refund via petition. Students will only be eligible to receive a refund within the same fiscal year as the course the student was originally enrolled in. Petitions for refunds will only be accepted and reviewed for classes dropped within the same fiscal year (July 1 to June 30) as per AP 5030.

Once a substandard grade or withdrawal is recorded on the transcript it becomes a part of the student's permanent record.

Emergency Absences of Short Duration

Emergency absences may be requested through the instructor. Instructors may be requested to provide make-up assignments for all work. Emergency absences will not be granted at the end of the semester when finals would be missed or course requirements not fulfilled.

Examinations

Credit By Examination

Credit may be granted, subject to approval of the appropriate Department Chair, to any student who satisfactorily passes an examination approved and conducted by the appropriate department. Such credit requires that:

1. The student be registered at Cuyamaca College and be in good standing.
2. The course be listed in the Cuyamaca College catalog and identified below as one for which Credit by Examination may be granted.
3. The unit value may not be greater than that listed for the course in the catalog.
4. Units earned in this manner do not count toward the 12 units required in residency.
5. Students have not enrolled in, or completed, the same course or an advanced course at any college in the area in which Credit by Examination is requested.
6. Petitions for Credit by Examination must be submitted by the end of the second week of classes for a semester or by the end of the first week of classes for a summer session.

Credit By Examination Procedure

1. Obtain and complete a petition for Credit by Examination from the Admissions and Records Office.
2. Make sure all college transcripts are on file.
3. Obtain approval for taking an examination from the designated instructor. This approval should be obtained before the student registers for classes.
4. Take an examination on the established date.
5. Instructor forwards to the Admissions and Records Office certification that the examination was passed satisfactorily.
6. The student's academic transcript will be annotated for Credit by Examination credit.

Courses for which Credit by Examination may be given:

Code	Title	Units
ART-120	Two-Dimensional Design	3
ART-124	Drawing I	3
ASTR-C1001	Introduction to Astronomy	3
AUTO-284	Level I Inspector Training Emission Control License	2
CADD-115	Engineering Graphics	3
GD-110	Graphic Design Principles	3
MUS-118	Introduction to Music	4
MUS-232	Class Piano III	3
MUS-233	Class Piano IV	3

Family Educational Rights and Privacy Act

Cuyamaca College accords to students all rights under the Family Educational Rights and Privacy Act. No one outside the institution shall have access to nor will the institution disclose any information from the students' education records without the written consent of students except to persons or organizations providing student financial aid, to accrediting agencies carrying out their accreditation function, to persons in compliance with a judicial order, and to persons in an emergency in order to protect the health or safety of students or other persons. At Cuyamaca College, only those employees acting in the students' educational interests are allowed access to student education records within the limitations of their need to know.

Cuyamaca student data is also submitted to the National Student Clearinghouse so that research may be conducted which informs studies regarding transfer rates, college performance and other college success indicators. The information shared is maintained with the strictest of confidence; individual names or data are not disclosed. If students wish to restrict their data from being shared with the National Student Clearinghouse, they may complete a form at Admissions and Records which will restrict the release of their student data.

The Act provides students with the right to inspect and review information contained in their education records, to challenge the contents of their education records, to have a hearing if the outcome of the challenge is unsatisfactory, and to submit explanatory statements for inclusion in their files if the decision of the hearing panel is unacceptable. The Dean of Counseling and the Director of Admissions & Records have been designated by the institution to coordinate the inspection and review procedures for student education records.

What is Directory Information?

Directory information is information contained in an education record of a student that would not generally be considered harmful or an invasion of privacy if disclosed. The Grossmont-Cuyamaca Community College District has defined directory information to include:

- Name, address, phone number, email address, dates of attendance and enrollment status (full-time, part-time)
- Student participation in officially recognized activities and sports including weight, height and high school of graduation of athletic team members
- Degrees and awards received by students, including honors, scholarship awards, athletic awards, Vice President's and President's recognition

If you wish to opt-out of directory information, please visit the Admissions and Records Office to submit your request to the Admissions and Records Office.

Grade Notification

Final grades are available approximately two weeks after the end of each term. Students may receive grades in the following ways:

- **Via the Internet** - Grades are available by logging on to *Self-Service* at www.cuyamaca.edu (http://www.cuyamaca.edu). Select the View/Print Grades option for the requested semester and year.
- **In Person** - Grades for the previous semester are available to students who present a photo I.D. at the Admissions and Records Office.

Grades-Final

In the absence of mistake, fraud, incompetency or bad faith, the determination of the student's grades by the instructor shall be final once they have been filed in the Admissions and Records Office. Questions regarding final grades should be directed to the dean of the department.

Grading System

Grades are earned in each course and recorded on a semester basis on the student's permanent record. A copy of the permanent record is the transcript. Grades should be interpreted as follows:

Grade	Meaning
A+	
A	Excellent
A-	
B+	
B	Good
B-	
C+	
C	Satisfactory
D	Passing, less than satisfactory
F	Failing
W	Withdrawal (issued to students who withdraw before the final drop deadline). Students who are enrolled after the final drop date must receive a letter grade (A-F).
EW	Excused Withdrawal: The "EW" symbol may be used as described in, and in accordance with Title 5, section 55024. (1) "Excused Withdrawal" (EW) occurs when a student is permitted to withdraw from a course(s) due to specific events beyond the control of the student affecting his or her ability to complete a course(s) and may include a job transfer outside the geographical region, an illness in the family where the student is the primary caregiver, when the student who is incarcerated in a California state prison or county jail is released from custody or involuntarily transferred before the end of the term, when the student is the subject of an immigration action, or other extenuating circumstances as described in (a)(2), making course completion impracticable. In the case of an incarcerated student, an excused withdrawal cannot be applied if the failure to complete the course(s) was the result of a student's behavioral violation or if the student requested and was granted a mid-semester transfer. Upon verification of these conditions and consistent with the district's required documentation substantiating the condition, an excused withdrawal symbol may be assigned at any time after the period established by the governing board during which no notation is made for withdrawals. The withdrawal symbol so assigned shall be an "EW." (2) Excused withdrawal shall not be counted in progress probation and dismissal calculations. (3) Excused withdrawal shall not be counted toward the permitted number of withdrawals or counted as an enrollment attempt. (4) In no case may an excused withdrawal result in a student being assigned an "FW" grade.
MW	Military Withdrawal awarded to active or reserve military personnel upon receipt of military orders compelling a withdrawal from courses.
P	Pass formerly CR (Credit), (C or higher) units are not calculated in GPA.

NP	No Pass formerly NC (No Credit), (less than a C) units are not calculated in GPA. Pass or No Pass may be assigned only if the course is indicated as pass/no pass or if the student has elected this option.
I	Incomplete - Incomplete academic work for unforeseeable, emergency and justifiable reasons at the end of the term, may result in an "I" symbol being entered in the student's record. An incomplete grade may be given only after the student has contacted the instructor; awarding of an "I" is at the discretion of the instructor.
	The "I" may be made up no later than one semester following the end of the term in which it was assigned. The "I" symbol shall not be used in calculating units attempted nor for grade points. A student may petition for extension of the time limit for removal of the incomplete. The petition must include evidence of approval from the instructor.
	Both the instructor and the student must complete and sign the Incomplete Grade Contract form. Procedural details are printed on the back of that form.
IP	In progress - The IP symbol indicates that work is "in progress," but that assignment of a grade must wait its completion. The IP symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate grade and unit credit shall be assigned and will appear on the student's permanent record for the term in which the course is completed. The IP shall not be used in calculating grade point averages.
RD	Report Delayed - The RD symbol may be assigned by the Admissions and Records Office only. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible. "RD" is not used in calculating GPA.
CPL	Credit for Prior Learning - The CPL symbol may be used to denote credit earned through successful completion of an International Baccalaureate examination, College Level Examination Program examination, Advanced Placement examination, or another experience, examination or assessment of prior learning, if the District determines that such prior learning satisfies the District's standards for measuring competencies comparable to those achieved in baccalaureate or general education level courses. Standards for satisfactory completion of a prior learning experience, examination or assessment will be approved by the faculty in the appropriate discipline for which prior learning credit is earned.

P, NP, W, EW, MW, I, IP and RD grades are not used in computation of grade point average but the W, NP and I are used for purposes of progress alert and disqualification status.

Grade Point Average

Academic achievement is reported in terms of grade point average (GPA). This is derived from the following weighting system:

Grade	Grade Points per Unit Earned
A+	4.0 grade points per unit earned
A	4.0 grade points per unit earned
A-	3.7 grade points per unit earned
B+	3.3 grade points per unit earned
B	3.0 grade points per unit earned
B-	2.7 grade points per unit earned
C+	2.3 grade points per unit earned
C	2.0 grade points per unit earned
D	1.0 grade points per unit earned
F	0.0 grade points per unit earned

Grade point average is computed by dividing total units attempted into total grade points earned. Decisions on probation and disqualification, scholarship, eligibility for graduation, and transfer are all influenced or determined by grade point average; hence, students should pay constant attention to their own grade point standing.

Commencement Ceremony

The Cuyamaca College Commencement ceremony is held every May or June for students who graduated in the Fall of the previous year, and candidates for Spring and Summer graduation. Summer graduates must meet with a counselor to facilitate participation in the Commencement ceremony.

Information regarding the Commencement ceremony is available in the Office of Student Engagement and Belonging. Students wishing to apply to receive a degree or certificate must file a Petition for Graduation in the Admissions and Records Office. Deadlines are printed in the catalog and class schedule.

Graduation with Honors

Students who have earned a 3.5 or better GPA in all degree-applicable college work attempted graduate with honors.

Official transcripts from all colleges attended must be on file in the Admissions and Records Office. However, if no course work on a transcript from another college is used to meet any degree requirement, students may exclude that entire transcript from being used to compute their overall GPA for graduation. Students electing this option need to make this request at the time they file an Evaluation for Graduation Request form in the Admissions and Records Office. An official transcript must be on file prior to request for exclusion. This option only applies to the GPA used to determine graduation with honors from Cuyamaca College and is not used to determine eligibility for honors for commencement. It will not affect transfer GPA and other colleges and universities may not calculate GPA for honors status the same way.

Honors

Students carrying 12 or more units at Cuyamaca College in which letter grades are earned ("Pass" grades not included), who maintain a 4.0 GPA during any semester, are placed on the President's List. Students who maintain a 3.5 to 3.9 GPA during any semester are placed on the Vice President's List.

Students carrying less than 12 units at either Cuyamaca College or Grossmont College, but carrying 12 or more units in which letter grades are earned ("Pass" grades not included) at Cuyamaca and Grossmont Colleges, who maintain a 4.0 GPA during any semester, are placed on the District President's List.

Students who maintain a 3.5 to 3.9 GPA during any semester are placed on the District Vice President's List.

Part-time students are eligible for the Vice President's List if they

1. complete 12 units at Cuyamaca College in one academic year (July 1 through June 30) with a GPA of 3.5 or better ("Pass" grades not included) and
2. were enrolled in fewer than 12 units per semester.

Minimum Load Requirements

Cuyamaca College does not specify a minimum load except when the student desires to meet certain requirements such as:

1. Certification to the Department of Health, Education and Welfare that the student is attending full-time. Requirement: 12 or more units a semester, but a student should average 30 units a year.
2. Veteran Affairs certification for Chapters 30, 31, 32, 33, 35 and 1606.

Fall or Spring Semester

Time	Units
Full-time	12
Three-quarter time	9 - 11-1/2
One-half time	6 - 8-1/2
One-quarter time	3 - 5-1/2

Summer Session

Calculated on an individual class basis. Contact the Veterans Certifying Official in the Veterans Center for detailed information.

3. International students with an "F-1" visa issued by Cuyamaca College. Requirement: 12 or more units a semester.
4. Enrollment verifications for insurance benefits that a student is attending full-time. Requirement: 12 or more units a semester or 6 or more units for summer session.
5. Athletics - Eligibility to participate in Pacific Coast Conference intercollegiate athletics. Requirement: 12 or more units in courses for which NEW units of credit may be earned. Students should see Pacific Coast Conference and Cuyamaca College regulations for additional requirements.
6. Student Government - Eligibility to participate in student government as an office holder or in intercollegiate activities other than athletics. Requirement: 6 or more units during the semester of participation.
7. Financial Aid – Enrollment status for financial aid purposes are as follows:

Time	Units
Full-time	12 or more
3/4 time	9 - 11.5
1/2 time	6 - 8.5
Less than 1/2 time	0.5 - 5.5

This applies to the fall and spring semesters and the summer session.

Pass/No Pass

Pass/No Pass (P/NP) is a grading system where such units earned will be counted in satisfaction of curricular requirements but will be disregarded in determining a student's grade point average.

A "P" grade shall represent at least a satisfactory completion ("C" grade) of course requirements. A "NP" grade shall represent unsatisfactory completion of course requirements. Course work that would have received a "D" or "F" will be graded "No Pass" (NP). "NP" grades will be taken into consideration in the determination of lack-of-process probation and disqualification status.

Students intending to transfer to four-year colleges or universities should check the specific policies of those institutions pertaining to transferability of "P" grades. Similarly, it is highly recommended that students complete their major or area of emphasis coursework with a letter grade ("A,"B," or "C"). For more information and o review the options, students are encouraged to meet with a counselor.

Pass/No Pass Grading Policy:

A maximum of 12 credit units earned at Cuyamaca/Grossmont College with "P" grades may be counted toward satisfaction of curriculum requirements for associate degrees and certificates. Pass grades received from other accredited institutions, as well as credits authorized for military courses and Advanced Placement examinations, may be applied as well.

There are courses in which "P/NP" grades are used exclusively; these are designated in the catalog course description by the statement "P/NP Only." In addition, there ae courses that cannot be taken on a "P/NP" basis. Some courses may be taken for either "P/NP" or "Letter Grade." Credit units earned in "P/NP Only" courses are exempt from the 12-unit restriction.

Students electing to be graded on a "P/NP" basis shall establish that option in writing by completing a "Pass/No Pass Request form" and

submitting to Admissions and Records. The form may be submitted for term length and short-term courses up to the last day of instruction of the requested course. A student may elect to reverse their action up until the last day of instruction of the requested course. Once the last day of instruction has passed, the decision is irrevocable.

In any course offered at Cuyamaca College, a student may elect to be graded on a "P/NP" basis providing the course is not part of a degree or Certificate of Achievement. In all cases, a student enrolled in a course must have met course prerequisites.

Pre-Collegiate Basic Skills Courses

Remedial coursework consists of pre-collegiate basic skills courses. The need for such coursework shall be determined using appropriate assessment instruments, methods, or procedures. Units earned in pre-collegiate basic skills courses may not be applied toward a degree or certificate. No student shall be required to enroll in remedial English or mathematics coursework that lengthens their time to complete a degree unless placement research that includes consideration of high school grade point average and coursework, shows that those students are highly unlikely to have success in transfer-level coursework in English and Mathematics.

Students may not receive credit for more than 30 units of remedial course work. This limit shall not apply to the following students:

- Students enrolled in one or more courses of English as a Second Language.
- Students identified by a college in the District as having a learning disability.

Students may be granted a waiver to the limitation upon petition to a college in the District. Waivers will be granted only when the student shows significant and measurable progress toward the development of skills necessary for college-level courses. Such waivers will be given only for a specified period of time or for a specified number of units.

Prerequisites, Corequisites, Recommended Preparations, and Limitations on Enrollment

Prerequisites, Corequisites and Recommended Preparations are listed in the Course Descriptions section of the catalog under each course listing.

A *prerequisite* is a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program.

A *corequisite* is a condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course.

An *advisory or recommended preparation* is a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

Limitations on enrollment are conditions for enrollment in Honors courses or courses which include public performance or intercollegiate competition.

All courses shall be open for enrollment to any student who has been admitted to the college, except that students may be required to meet necessary and valid prerequisites. In addition, the District may also limit enrollment in a course based on health and safety considerations, facility limitations, or legal requirements imposed by statute or regulations.

Procedure

Students who believe that they have sufficient grounds may challenge a prerequisite, corequisite, or limitation on enrollment. Students who challenge a prerequisite or corequisite after the start of the semester should speak with the Placement Center.

Students should plan their schedules early and see a counselor for assistance.

To submit a prerequisite clearance or challenge, please visit cuyamaca.edu/prereqs (http://www.cuyamaca.edu/prereqs)

Grounds for challenge are:

1. Student can demonstrate that the prerequisite has not been established following the District's policy or in accordance with Title 5.
2. Student can demonstrate that the course is discriminatory or applied in a discriminatory manner.
3. Student can demonstrate knowledge or skill needed to succeed in the course without the prerequisite.
4. Student can demonstrate that attainment of their educational goal will be unduly delayed because the prerequisite has not been made reasonably available (impacted programs).
5. Student can demonstrate that no threat is posed to self or others in a course which has a prerequisite established to protect health and safety.

Probation, Dismissal, and Readmission

Cuyamaca College believes that students who can benefit from higher education should be allowed admission free of probationary status. Grades earned at other schools prior to admission to Cuyamaca College shall not be considered in determining probationary status.

Probation

1. *Academic Probation:* Any student who has attempted a minimum of 12 semester units at Grossmont-Cuyamaca Community College District (GCCCD) and whose cumulative grade point average falls below a 2.0 in courses receiving letter grades ("W" courses excluded) shall be placed on academic probation. The student will be notified of the significance of probation and the services available.
2. *Lack-of-Progress Probation:* Any student who has enrolled in a total of at least 12 semester units at GCCCD shall be placed on lack-of-progress probation when the student's cumulative units indicate 50 percent or more units of "W," "I" or "NP." The student will be notified of the significance of probation and the services available.
3. *Removal from Probation:*
    1. Any student on academic probation shall be removed from probation when the cumulative GPA at GCCCD has improved to 2.0.
    2. Any student on lack-of-progress probation shall be removed from probation when the cumulative units of "W," "I" or "NP" recorded at GCCCD are less than 50 percent of the total units attempted.

Dismissal

Any student dismissed from a college within the Grossmont-Cuyamaca Community College District may not attend any college within the District

during the next consecutive semester. Students dismissed following the spring term may, however, attend the summer session.

1. *Academic Dismissal:* Any student on academic probation whose semester GPA falls below 2.0 shall be academically dismissed. Any student on academic probation whose semester GPA equals or exceeds 2.0, but whose cumulative GPA for all units attempted remains below 2.0, shall be continued on probation.
2. *Lack-of-Progress Dismissal:* Any student who is on lack-of-progress probation and whose semester work indicates 50 percent or more units of "W," "I" or "NP" will be dismissed. Any student on lack-of-progress probation whose semester work indicates fewer than 50 percent units of "W," "I" or "NP," but whose cumulative records show 50 percent or more units of "W," "I" or "NP," will be continued on lack-of-progress probation.

If, at the end of the third consecutive semester in which the student earned a cumulative GPA of less than 2.0 or whose cumulative records show the percentage of units is W, I or NP is greater than 50%, the student will be dismissed. A notice that the student is dismissed will be sent to the student informing him/her that he/she is dismissed.

Readmission

After being dismissed, a student may not attend either college in the district for two semesters. Students dismissed following the spring term may attend summer session. Any student believing to be unjustifiably dismissed may file a petition with documentation to the Admissions and Records Office requesting that such dismissal be reconsidered. Students are encouraged to see a counselor for assistance with petitions. To facilitate the official adding of courses prior to the published add deadline, a petition for reinstatement should be submitted no later than ten working days prior to the published add deadline.

Any veteran who petitions for readmission to the college following dismissal must meet with a counselor and have the counselor make a recommendation on the petition prior to being considered for readmission.

Program Discontinuance

Cuyamaca College adheres to the GCCCD Governing Board Policy when elimination of a program is determined. When a program is discontinued, students are notified in writing of the program discontinuance. Students are given a timeline for completing the program and are advised of options.

Course Repetition

Repetition of courses at Cuyamaca College is allowable only in certain situations.

Substandard Work

A course may be repeated in order to alleviate substandard academic work (D, F or NP) or if a "W" (withdrawal) was recorded. Students will be allowed to enroll in a course three times under this policy. Military withdrawals do not count in terms of repetition restrictions. If the course is offered at both colleges in the district, the student may repeat the course at either college. Only the last grade will be included in determining GPA and only those units will count towards graduation.

Students with extenuating circumstances may seek approval to enroll in a course a fourth time by submitting a petition to the Admissions and Records Office. Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the control of the student. The student must provide appropriate documentation. If approved, only the last grade will be included in determining GPA.

Special Circumstances

A student may not repeat a course in which a "C" grade or higher was earned unless one of the following special circumstances apply.

1. A course may be repeated due to a significant lapse of time of no less than 36 months if there is an approved recency prerequisite for the course or program, or another institution of higher education to which the student seeks to transfer has a recency requirement. Only the last grade will be included in determining GPA.
2. A student with a disability may repeat a special class any number of times when an individualized determination verifies that such repetition is required as a disability-related accommodation.
3. A course may be repeated if there are extenuating circumstances which justify the repetition. Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the control of the student. The student must file a petition with appropriate documentation. Only the last grade will be included in determining GPA.
4. A student may repeat a course in occupational work experience as long as he/she does not exceed the limits on the number of units of cooperative work experience stated in the course description. The grade received each time shall be included for purposes of calculating the student's GPA.
5. A student may repeat a course any number of times if it is determined to be legally mandated. Proper documentation must be submitted to the Admissions & Records Office. Only the last grade will be included in determining GPA.
6. A student may repeat a course as a result of a significant change in industry or licensure standards such that repetition of the course is necessary for employment or licensure. Proper documentation must be submitted to the Admissions & Records Office. Only the last grade will be included in determining GPA.

Academic renewal does not provide an exception to the course repetition policy. All courses that are repeated shall be recorded on the student's permanent academic record using an appropriate symbol.

Repeatable Courses

A course may be repeated if it is specifically designated as a "repeatable" course in the course listings. Repeatable courses are as follows:

1. A course that is required to meet major requirements of the California State University (CSU) or University of California (UC). Proper documentation must be submitted to the Admissions & Records Office.
2. Intercollegiate athletics courses and their accompanying conditioning courses.
3. Intercollegiate academic or vocation competition courses. Enrollment is limited to four times for semester courses and applies even if the student receives a "W" or substandard grade.

The grade received each time a student takes a "repeatable course" shall be included in the student's grade point average (GPA).

Courses Related in Content

A student may not take courses in Art, Exercise Science, or Music that are related in content and have a similar primary educational activity more than four times. The limitation applies if a student receives a substandard grade or "W" during one or more of the enrollments.

A maximum of four enrollments in each of the groupings below in the Grossmont-Cuyamaca Community College District is allowed. Enrollment includes: course completed, W, NP, F, Incomplete.

Studio Arts Foundation

Course	Cuyamaca College	Grossmont College
ART 120	ART-120	ART-120
ART 129	ART-129	ART-129

Digital Arts Foundation

Course	Cuyamaca College	Grossmont College
ART 171		ART-171
ART 175		ART-175
GD 105	GD-105	
GD 126	GD-126	

Digital Arts-Drawing and Illustration

Course	Cuyamaca College	Grossmont College
ART 177	ART-177	ART-177
ART 184		ART-184
ART 240		ART-240
GD 225	GD-225	

Human Figure Drawing

Course	Cuyamaca College	Grossmont College
ART 230	ART-230	ART-230
ART 231	ART-231	ART-231
ART 232	ART-232	
ART 233	ART-233	
ART 240	ART-240	ART-240

Drawing Foundations

Course	Cuyamaca College	Grossmont College
ART 124	ART-124	ART-124
ART 125	ART-125	ART-125
ART 241	ART-241	
ART 242	ART-242	

Painting Foundations

Course	Cuyamaca College	Grossmont College
ART 121	ART-121	ART-121
ART 220	ART-220	ART-220
ART 221	ART-221	ART-221
ART 222	ART-222	ART-222

Watercolor Painting

Course	Cuyamaca College	Grossmont College
ART 135	ART-135	
ART 235	ART-235	
ART 236	ART-236	

Printmaking

Course	Cuyamaca College	Grossmont College
ART-210	ART-210	ART-210
ART-211	ART-211	ART-211

Photography Foundations

Course	Cuyamaca College	Grossmont College
PHOT 150		PHOT-150
PHOT 151		PHOT-151
GD 210	GD-210	
GD 211	GD-211	
GD 212	GD-212	

Total Body Fitness

Course	Cuyamaca College	Grossmont College
ES 004		ES-004
ES 006ABC		ES-006A, ES-006B, ES-006C
ES 019ABC	ES-019A, ES-019B, ES-019C	
ES 022		ES-022
ES 024ABC	ES-024A, ES-024B, ES-024C	

Mind/Body and Flexibility Fitness

Course	Cuyamaca College	Grossmont College
ES 026		ES-026
ES 027		ES-027A, ES-027B, ES-027C
ES 028ABC	ES-028A, ES-028B, ES-028C	ES-028A, ES-028B, ES-028C

Muscle Development

Course	Cuyamaca College	Grossmont College
ES 005ABC		ES-005A, ES-005B, ES-005C
ES 014ABC	ES-014A, ES-014B, ES-014C	
ES 023ABC		ES-023A, ES-023B, ES-023C

Cardiovascular Fitness

Course	Cuyamaca College	Grossmont College
ES 007ABC		ES-007A, ES-007B, ES-007C
ES 008ABC	ES-008A, ES-008B, ES-008C	
ES 009ABC	ES-009A, ES-009B, ES-009C	

ES 016ABC		ES-016A, ES-016B, ES-016C
ES 017ABC		ES-017A, ES-017B, ES-017C

Combative Sports

Course	Cuyamaca College	Grossmont College
ES 180	ES-180	

Racquet Sports

Course	Cuyamaca College	Grossmont College
ES 060ABC	ES-060A, ES-060B, ES-060C	ES-060A, ES-060B, ES-060C
ES 061ABC	ES-061A, ES-061B, ES-061C	ES-061A, ES-061B, ES-061C
ES 076ABC	ES-076A, ES-076B, ES-076C	ES-076A, ES-076B, ES-076C

Individual Sports

Course	Cuyamaca College	Grossmont College
ES 125ABC		ES-125A, ES-125B, ES-125C

Team Sports/Gym

Course	Cuyamaca College	Grossmont College
ES 155ABC	ES-155A, ES-155B, ES-155C	ES-155A, ES-155B, ES-155C
ES 175ABC	ES-175A, ES-175B, ES-175C	ES-175A, ES-175B, ES-175C

Team Sports/Field

Course	Cuyamaca College	Grossmont College
ES 170ABC	ES-170A, ES-170B, ES-170C	ES-170A, ES-170B, ES-170C
ES 171ABC		ES-171A, ES-171B, ES-171C
ES 172ABC		ES-172A, ES-172B, ES-172C
ES 176ABC		ES-176A, ES-176B, ES-176C

Vocal Ensembles

Course	Cuyamaca College	Grossmont College
MUS 136	MUS-136	
MUS 137	MUS-137	
MUS 236	MUS-236	
MUS 237	MUS-237	
MUS 138		MUS-138
MUS 139		MUS-139
MUS 238		MUS-238
MUS 239		MUS-239
MUS 158	MUS-158	
MUS 159	MUS-159	
MUS 258	MUS-258	
MUS 259	MUS-259	

Jazz/Popular Ensembles

Course	Cuyamaca College	Grossmont College
MUS 108	MUS-108	
MUS 109	MUS-109	
MUS 208	MUS-208	
MUS 209	MUS-209	
MUS 156	MUS-156	MUS-156
MUS 157	MUS-157	MUS-157
MUS 256	MUS-256	MUS-256
MUS 257	MUS-257	MUS-257
MUS 166		MUS-166
MUS 167		MUS-167
MUS 266		MUS-266
MUS 267		MUS-267

Non-Western Ensembles

Course	Cuyamaca College	Grossmont College
MUS 154		MUS-154
MUS 155		MUS-155
MUS 254		MUS-254
MUS 255		MUS-255
MUS 142		MUS-142
MUS 143		MUS-143
MUS 242		MUS-242
MUS 243		MUS-243

Large Instrumental Ensembles

Course	Cuyamaca College	Grossmont College
MUS 148		MUS-148
MUS 149		MUS-149
MUS 248		MUS-248
MUS 249		MUS-249
MUS 150		MUS-150
MUS 151		MUS-151
MUS 250		MUS-250
MUS 251		MUS-251
MUS 152	MUS-152	MUS-152
MUS 153	MUS-153	MUS-153
MUS 252	MUS-252	MUS-252
MUS 253	MUS-253	MUS-253

Sexual Harassment

Legal Background: Guidelines of Title VII of the Civil Rights Act focus upon sexual harassment as an unlawful practice. “Sexual harassment like harassment on the basis of color, race, religion or national origin, has long been recognized by the Equal Employment Opportunity Commission as a violation of Section 703 of Title VII of the Civic Rights Act as amended” (Federal Register, April 11, 1980). Interpretation of Title IX of the Education Amendments similarly delineates sexual harassment as discriminatory and unlawful.

Definition: Sexual harassment is defined in GCCCD Policy 3430 as the following:

Unwelcome sexual advances, requests for sexual favors, and other verbal, visual, or physical conduct of a sexual nature made by someone from, or in, the work or educational setting when:

- Submission to the conduct is made a term or condition of an individual's employment, academic status, or progress;
- Submission to or rejection of the conduct by the individual is used as a basis of employment or academic decisions affecting the individual;
- The conduct has the purpose or effect of having a negative impact upon the individual's work or academic performance, or of creating an intimidating, hostile or offensive work or education environment; or
- Submission to or rejection of the conduct by the individual is used as the basis for any decision affecting the individual.

Process: Complaints must be filed within 180 days of the date the alleged unlawful discrimination occurred, except that this period shall be extended by no more than 90 days following the expiration of the 180 days if the complainant first obtained knowledge of the facts of the alleged violation after the expiration of the 180 days (California Code Regulations, Title 5, Section 59328e).

If the alleged harasser is a student, initial action on the complaints shall be the joint responsibility of the Dean of Student Engagement and Belonging and the Director of Employee and Labor Relations.

If the alleged harasser is an employee, initial action on the complaint shall be the joint responsibility of the employee's immediate supervisor and the Director of Employee and Labor Relations.

Student Code of Conduct

Grounds for Disciplinary Action

Student conduct must conform to District and College rules and regulations. If a Student Code of Conduct violation occurs while a student is enrolled in any program of instruction within the District, to include distance programs, he or she may be disciplined for one or more of the following causes that must be District related. These categories of behavior are not intended to be an exhaustive list, but are examples of causes and are good and sufficient causes for discipline, including but not limited to the removal, suspension or expulsion of a student. Other misconduct not listed may also result in discipline if good cause exists (Education Code Section 76034).

- Causing, attempting to cause, or threatening to cause physical injury to another person.
- Possession, sale or otherwise furnishing any firearm, knife, explosive, or other dangerous object, including but not limited to any facsimile firearm, knife, or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from the Vice President of Student Services or designee.
- Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
- Committing or attempting to commit robbery or extortion.
- Causing or attempting to cause damage to District property or to private property on campus.
- Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen District property or private property on campus.
- Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or the District.
- Committing sexual harassment as defined by law or by District policies and procedures.
- Engaging in harassing or discriminatory behavior based on disability, gender, gender identity, gender expression, nationality, race or ethnicity, religion, sexual orientation or any other status protected by law.
- Engaging in intimidating conduct or bullying against another student through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyberbullying.
- Willful misconduct that results in injury or death to a student or to District personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.
- Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.
- Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty as defined by the College's academic integrity standards.
- Dishonesty; forgery; alteration or misuse of District documents, records or identification; or knowingly furnishing false information to the District.
- Unauthorized entry upon or use of District facilities.
- Lewd, indecent or obscene conduct or expression on District-owned or controlled property, or at District sponsored or supervised functions.
- Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on District premises, or the violation of lawful District regulations, or the substantial disruption of the orderly operation of the District.
- Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
- Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any district policy or administrative procedure.
- Hazing or attempted hazing of a former, current, or prospective student of the District.
- Engaging in physical or verbal intimidation or harassment of such severity or pervasiveness as to have the purpose or effect of unreasonably interfering with a student's academic performance, or District employee's work performance, or of creating an intimidating, hostile or offensive educational or work environment.
- Engaging in physical or verbal disruption of instructional or student services activities, administrative procedures, public service functions, authorized curricular or co-curricular activities or prevention of authorized guests from carrying out the purpose for which they are on District property.
- Sexual assault and sexual exploitation as defined in Education Code section 76033(g), (h).

- Misconduct where good cause exists (Education Code Section 76033).
- Engaging in social media or other digital platforms to threaten, harass, intimidate, stalk, defame, or target any member of the campus community (including students, faculty, staff, or administrators).

Types of Disciplinary Actions

Types of Student Conduct Action Student Conduct actions that may be imposed for violations of the Student Code of Conduct include the following:

- **Warning:** Written or oral notice to the student that continuation or repetition of misconduct may be cause for further Student Conduct action.
- **Student Conduct Probation:** Specific period of conditional participation in campus and academic affairs that may involve exclusion from designated privileges or extracurricular activities. If a student violates any condition of probation, or is charged a second time with a violation of the Standards of Student Conduct during the probationary period, it shall be grounds for revocation of the student's probationary status and for further Student Conduct action to be taken in accordance with these procedures.
- **Removal from Class by Instructor (Education Code 76032):** An instructor may remove, for good cause, any student from his or her class for up to two (2) class sessions. The student shall not return to the class during the period of the removal without concurrence of the instructor, and if required the consent of the CSSO or designee. Nothing herein will prevent the College President or Designee or CSSO from recommending further Conduct in accordance with these procedures based on the facts that led to the removal. As used in this rule, "good cause" includes those offenses listed in the Student Code of Conduct. The instructor shall immediately report the removal to the respective Division Administrator and to the College President or designee. If the student is a minor, the College President or designee shall schedule a conference with the student and the student's parent or guardian regarding the removal. The Administrator shall arrange for a conference between the student and appropriate college personnel regarding the removal. Instructors are not obliged to provide makeup opportunities for class work, including quizzes, tests or examinations, missed during the two (2) class periods of removal. Suspension or
- **Termination of Financial Aid:** In the event a student is suspended for willfully and knowingly disrupting the orderly operation of the campus, this action will result in ineligibility for State Financial Aid, as defined in Education Code Sections 69810 and 69813, for the period of suspension.
- **Immediate Interim Suspension:** The College President, the President's designee, or the CSSO may order immediate suspension of a student when he or she concludes that immediate interim suspension is required to protect lives or property and to ensure the maintenance of order. A reasonable opportunity shall be afforded the suspended person to have a hearing within ten (10) days of the time that the CSSO or designee, or the College President became aware of the infraction unless mutually agreed upon by the student and the designated Administrator that more time is required. In cases where an immediate interim suspension has been ordered, the time limits contained in these procedures shall not apply, and all hearing rights, including the right to a formal hearing where a long-term suspension or expulsion is recommended, will be afforded to the student according to the provisions above. In the event that a student does not request a hearing within the ten (10) days or contact the College President, CSSO or his or her designee or Administrator, to establish a mutually agreed upon time for hearing, the College where the infraction occurred will proceed with a due process AP 5520 Student Discipline Procedures (Page 6 of 14) Grossmont-Cuyamaca Community College District hearing twenty (20) days after the point that the aforementioned administrators became aware of the infraction with or without the accused student being present. Students placed on Immediate Interim Suspension shall have holds placed on all records and transcripts pending the outcome of the due process hearing (Education Code Section 66017). Instructors are not obliged to provide makeup opportunities for class work, including quizzes, tests or examinations, missed during the period of suspension.
- **Short-Term Suspension:** Temporary exclusion from student status, or other privileges or activities, one (1) or more classes for a period of up to ten (10) consecutive days of instruction. Faculty members are not obliged to provide makeup opportunities, including quizzes, tests or examinations, for class work missed during the period of suspension.
- **Long-term Suspension:** Temporary exclusion from student status, or other privileges or activities, the remainder of the current semester and/or one or more terms. Instructors are not obliged to provide makeup opportunities for class work missed, including quizzes, tests or examinations, during the period of suspension. If any student is suspended or expelled from the GCCCD, he or she shall not be present on any of the campuses or at the District Office without authorization from the College President, CSSO, or the District Vice Chancellor of Human Resources and must be escorted by a District Public Safety officer. The student may not attend any official campus sanctioned events or activities during the term of the suspension.
- **Expulsion Subject to Reconsideration:** Permanent termination of student status, subject to reconsideration by the Board of Trustees after a specified length of time. Reconsideration may be requested in accordance with the procedure for Reconsideration. Permanent Expulsion: Permanent termination of student status. There shall be no right of reconsideration of a permanent expulsion at any time. On its own motion, the Board of Trustees may reconsider such actions at any time.
- **Restitution:** Appropriate restitution shall be sought from any student found responsible of theft, vandalism, or willful destruction of District or College property.
- **Educational Sanctions:** Educational sanctions may be assigned instead of, or in addition to those specified in this section at the discretion of the Administrator. Educational sanctions may include, but are not limited to, reflection papers, participation in alcohol or drug education programs, or meeting with college officials.
- **Community Service**: Community Service may be assigned instead of, or in addition to, those specified in this section at the discretion of the Administrator. Community Services assignments will require a student to perform unpaid work of benefit to the College community. Community Service provides an opportunity for the student to contribute positively to their community. The assigned tasks shall support and supplement services existing on campus. The Dean of Student Engagement and Belonging shall approve the community service site. Student must present hours to the Dean of Student Engagement and Belonging upon completion. Referral: A student may be referred by the Administrator to any college/community resource deemed necessary for the assistance of the student.

Students Rights, Grievances, and Due Process

The educational philosophy of the Grossmont-Cuyamaca Community College District ("District" or "College") set forth by board policy BP 1300 Educational Philosophy states that "The colleges recognize the worth of the individual and the fact that individual needs, interests, and capacities vary greatly." With acceptance of this principle comes the recognition that divergent viewpoints may result and that a process by which these viewpoints can be aired and resolved must be established.

The purpose of this document is to provide a prompt and equitable means for resolving student grievances. In the pursuit of academic goals, the student should be free of unfair or improper action by any member of the campus community. These procedures shall be available to any student who reasonably believes a college decision or action has adversely affected his/her status, rights or privileges as a student. It is the responsibility of the student to submit evidence of alleged unfair or improper action for investigation. These procedures shall include, but not be limited to, grievances regarding:

- Course grades, to the extent permitted by Education Code Section 76224(a), which provides: "When grades are given for any course of instruction taught in a community college District, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final." "Mistake" may include, but is not limited to errors made by an instructor in calculating a student's grade and clerical errors;
- The exercise of rights of free expression protected by state and federal constitutions and Education Code Section 76120.

This Student and Grievance Procedure does not apply to:

- The challenge process for prerequisites, corequisites, advisories, and limitations on enrollment; an appeal of residence decision determination; or the determination of eligibility, disqualification or reinstatement of Financial Aid. The appeal procedure for eligibility, disqualification, and reinstatement of financial aid may be obtained in the Financial Aid Office. Information about other procedures is listed in the schedule of classes, the college catalog, or may be obtained from the Chief Student Services Officer or directed to the administrator in charge of the specific area of concern.
- Alleged violations of sexual harassment policies, sex discrimination in education programs and activities as prohibited by Title IX of the Higher Education Amendments of 1972 (see AP 3435).
- Actions dealing with student discipline, alleged discrimination on the basis of ethnic group identification, religion, age, gender, color, sexual orientation, physical or mental disability. These should be directed to the Dean of Student Engagement and Belonging and the Vice Chancellor of Human Resources.
- Parking citations (i.e., "tickets") and complaints regarding citations must be directed to the Campus and Parking Services Office.
- Law Enforcement citations (i.e., "tickets") and complaints regarding citations must be directed to the Campus and Corresponding Police Agency.
- If it is reasonable to conclude that, if substantiated, discipline of an employee may follow from a violation, such grievance is not subject to this process. Allegations of this nature will be directed to the appropriate college administrator.

If the grievance is predicated on an alleged unlawful discrimination on the basis race, nationality, ethnic group identification, religion, age, gender, color, sexual orientation, physical or mental disability, or other legally protected status, a complaint may be filed with the:

Vice Chancellor of Human Resources
District Office
Grossmont-Cuyamaca Community College District
8800 Grossmont College Drive
El Cajon, CA 92020
(619) 644-7572

Diversity, Equal Opportunity and Title IX Officer
District Office
Grossmont-Cuyamaca Community College District
8800 Grossmont College Drive
El Cajon, CA 92020
(619) 644-7039

Cuyamaca College
Dean of Student Engagement and Belonging
900 Rancho San Diego Parkway
El Cajon, CA 92019
(619) 660-4295

Grossmont College
Dean, Student Affairs
8800 Grossmont College Drive
El Cajon, CA 92020
(619) 644-7600

Information about grievance procedures and a copy of this document should be available to grievant(s) and/or the student respondent(s) upon request.

Definition of Student Grievance Terms

Academic Senate: The elected representative body of the faculty at each College of the District.

Administrator: The College President or other person or persons designated by him or her.

Dean of Student Engagement and Belonging: The Dean of Student Engagement and Belonging at each college of the District or their designee.

Associated Student Government: The elected student representative body at each college of the District.

Chief Student Services Officer: The Vice Presidents of Student Services at each College of the District.

College President or Designee: The Chief Executive Officer (CEO) at each College of the District or an Administrator selected by the CEO to represent him or her in matters of Student Conduct.

Days: Days during which College is in session and regular classes are held, including summer and intersession days, and excluding Saturdays and Sundays, unless otherwise specified in the procedures.

Decision: The final outcome of the Grievance Council. This includes tie votes or no decision.

District or GCCCD: The Grossmont-Cuyamaca Community College District (GCCCD), including all Colleges, programs and offerings.

Formal Grievance Hearing Committee: The Formal Grievance Hearing Committee is appointed by the College President and shall consist of two (2) students, two (2) faculty members, and one (1) college administrator, supervisor or staff member.

Grievance Council: The Grievance Council is composed of the Chief Student Services Officer, the Vice President of Instruction and the Chief Business Officer of the college or their designees.

Grievant: A grievant is a person currently enrolled, or a person who has filed an application for admission to the college, or a former student of the District, including both in-person and online. Former students shall be limited to grievances relating to course grades to the extent permitted by Education Code Section 76224(a) and must file their grievance within one (1) year of the date that a reasonable person would have had knowledge, but not to exceed one (1) year (to be determined by the Formal Grievance Committee).

Instructor: Any academic employee of the District who is the instructor of record for a class in which a student is enrolled, or a counselor who is providing or has provided services to the student, or other academic employees who provide services related to the student's educational program.

Party: The student grievant or any persons alleged to have been responsible for the student's alleged grievance, together with their representatives. Party shall not include the Formal Grievance Hearing Committee, members of the Grievance Council, or the Dean of Student Engagement and Belonging.

Respondent: Any party who is a student and who is claimed by a grievant to be responsible for the alleged grievance.

Student: A currently enrolled student, a person who has filed an application for admission to, or a former student at any college within

Informal Resolution

All parties involved are encouraged to seek an informal resolution. Informal meetings and discussion between persons directly involved in a grievance are essential at the outset of any dispute and should be encouraged. An equitable solution should be sought before persons directly involved in the case have assumed official or public positions that might tend to polarize the dispute and render a solution more difficult.

In an effort to resolve the matter in an informal manner, the student may, if appropriate, schedule a meeting with the person with whom the student has the grievance, schedule a meeting with the person's immediate supervisor, and/or schedule a meeting with the appropriate college administrator.

The College President shall appoint the Dean of Student Engagement and Belonging to assist students in seeking resolution by informal means. The role of the Dean of Student Engagement and Belonging is that of a facilitator of the grievance process, and not that of an advocate for either the Grievant(s) or the Respondent(s). The Dean, Student Engagement and Belonging and the student may also seek the assistance of the Associated Student Organization or any other appropriate resource(s) in attempting to resolve a grievance informally.

Request for Formal Grievance Hearing

If the student believes the issue has not been resolved satisfactorily, the student may obtain a Written Statement of Grievance form from the Office of Student Engagement and Belonging, specifying the time, place, nature of the complaint, the specific policy or regulation alleged to have been violated, if any, and the remedy or correction requested. This Statement shall be submitted to the Dean of Student Engagement and Belonging. A grievance by an applicant shall be limited to a complaint regarding denial of admission. Former students shall be limited to grievances relating to course grades to the extent permitted by Education Code Section 76224(a) and must file their grievance within one (1) year of the date the grade was awarded.

Following submission of the Written Statement of Grievance, the student may, if appropriate, schedule a meeting with the Dean of Student Engagement and Belonging to explore student rights and responsibilities and receive assistance with an informal resolution.

- During the informal resolution stage of the grievance process, the Dean of Student Engagement and Belonging shall facilitate informal meetings and discussions that may lead to a resolution of the grievance.
- The Dean of Student Engagement and Belonging may gather information, communicate with all parties and attempt to mediate an informal resolution.

At the end of fifteen (15) days, barring any exigent circumstance, following the receipt of the Written Statement of Grievance by the Dean of Student Engagement and Belonging, if there is no informal resolution of the complaint, the student(s) shall have the right to request a Formal Grievance Hearing.

The request for a Formal Grievance Hearing shall be made in writing to the Dean of Student Engagement and Belonging within five (5) days, barring any exigent circumstance, following the conclusion of the information resolution process. If the Grievant fails to exercise his/her due process rights within this time frame, no further action shall be taken. Any exception to these time restrictions will be granted at the discretion of Dean of Student Engagement and Belonging and will only be granted in extremely exigent circumstances.

Following receipt of the Formal Grievance Hearing Form from the Grievant, upon request from either Party, the Grievant(s) or Respondent(s), the Dean of Student Engagement and Belonging shall meet with the Grievant(s) and Respondent(s) to outline their rights and responsibilities.

Formal Grievance Hearing Committee

The College President shall establish annually a standing panel from which one or more Formal Grievance Hearing Committees may be appointed. The panel shall consist of a minimum of:

- Five (5) students recommended by the Associated Student Government;
- Five (5) faculty members recommended by the Academic Senate;
- Five (5) administrators, supervisors or staff selected by the College President.

The College President shall appoint a Formal Grievance Hearing committee from the standing panel. The College President shall ensure that these committee members have no possible conflict of interest in hearing the grievance. The committee shall include two (2) students, two

(2) faculty members, and one (1) College administrator, supervisor or staff member selected from the panel described above.

The Formal Grievance Hearing Committee shall select a chairperson from among its members.

Once a Formal Grievance Hearing has commenced, only those committee members present throughout the Hearing may vote on the recommendation.

No person shall serve as a member of the Formal Grievance Hearing Committee if that person has been personally involved in any matter giving rise to the grievance, has made any public statement on the matters at issue, or could otherwise not act in a neutral manner. The grievant(s) or the respondent(s) may challenge for cause any member of the Formal Grievance Hearing Committee prior to the beginning of the hearing by addressing a challenge in writing to the College President, who shall determine whether cause for disqualification has been shown. If the College President believes that sufficient grounds for removal of a member of the Formal Grievance Hearing Committee have been presented, the College President shall remove the challenged member or members and replace them with another member or members from the standing panel.

Formal Grievance Hearing Committee Determination of Standing

Within ten (10) days following receipt of the Formal Grievance Hearing Request, the Formal Grievance Hearing Committee shall meet to select a chairperson and to determine if the Formal Grievance Hearing Request fulfills all of the following requirements:

- The request contains facts/documentation which, if true, would constitute a grievance;
- The grievant is a student as defined in these procedures, which includes applicants and former students;
- The grievant is personally and directly affected by the alleged grievance;
- The grievant conformed with the grievance procedures and the grievance was filed in a timely manner; The grievance is not clearly frivolous or without foundation, or not clearly filed for purposes of harassment or retaliation.

If the Formal Grievance Hearing Committee rejects the request for a Formal Grievance Hearing, the grievant and the Dean of Student Engagement and Belonging shall be notified in writing, within five (5) days, by the committee's chairperson. The specific reason(s) for rejection and the appeal process outlined in this document shall be included in this notification.

If the grievant(s) is dissatisfied with the decision of the Formal Grievance Hearing Committee not to grant a Formal Grievance Hearing, a written appeal may be filed with the Grievance Council via the Dean of Student Engagement and Belonging within five (5) days after receipt of the Formal Grievance Hearing Committee's decision. The Grievance Council's decision on the appeal is final.

If the request for a Formal Grievance Hearing satisfies all of the requirements listed above, the committee Chairperson shall notify the Grievant and the Dean of Student Engagement and Belonging, in writing, within five (5) days.

The Dean of Student Engagement and Belonging shall schedule a Formal Grievance Hearing which shall commence within twenty (20) days barring any exigent circumstances, following the decision to grant a Formal Grievance Hearing. All parties to the grievance shall be given no less than five (5) days, barring any exigent circumstance, notice of the date, time and place of the hearing.

Hearing Preparation

The Dean of Student Engagement and Belonging shall be responsible for making the necessary arrangements for the Hearing. Arrangements shall include scheduling a room, providing for a tape recorder, providing notice to the parties, notifying members of the Grievance Hearing Committee, and any other arrangements deemed necessary.

Parties requesting accommodations in accordance with the Americans with Disabilities Act of 2008 or Section 504 of the Rehabilitation Act (1973) may do so by contacting the Dean of Student Engagement and Belonging in writing at least five (5) days in advance of the needed accommodation.

During the Formal Grievance Hearing stage of the grievance process, the Dean of Student Engagement and Belonging shall coordinate the preparation and shall prepare the chairperson on conduct of the hearing, including providing any additional necessary training to committee members. The Dean of Student Engagement and Belonging shall sit with the Formal Grievance Hearing Committee but shall not serve as a member or vote. The Dean of Student Engagement and Belonging shall ensure that the entire grievance process is conducted in an orderly, fair, and respectful manner.

Right to Representation: The Grievant(s) or the Respondent(s) shall represent themselves. Parties are allowed an advisor of their choice whose role is to advise, not represent. The advisor shall not be an attorney or a person acting as an attorney. The advisor's name shall be summited to the Dean of Student Engagement and Belonging no later than 48 hours prior to the hearing. If the student needs assistance finding an advisor, the Dean of Student Engagement and Belonging can assist in finding an advisor. The Grievance Hearing Committee may also request legal assistance through the College President. Any legal advisor provided to the hearing committee may sit with it in an advisory capacity to provide legal counsel but shall not be a member of the panel nor vote with it.

The Dean of Student Engagement and Belonging shall have the authority to exclude from the hearing any individuals who fail to conduct themselves in an orderly, fair, and respectful manner.

Conduct of the Hearing

Opening: The committee chairperson shall call the hearing to order, introduce the participants, and announce the purpose of the hearing

Review of Alleged Grievance: The chairperson shall distribute copies of the Formal Grievance Hearing Form submitted by the Grievant to the members of the Grievance Hearing Committee and read them aloud on to the record.

Burden of Proof: The burden shall be upon the grievant to prove by a preponderance of evidence ("more likely than not" that the facts alleged are true.

Statements: Unless the Grievance Hearing Committee determines to proceed otherwise, beginning with the Grievant(s), each party to the grievance shall be permitted to make or waive an opening statement. Thereafter, the Grievant(s) shall make the first presentation, followed by the Respondent(s). The Grievant(s) may present rebuttal evidence after

the Respondent(s)' evidence. The burden shall be on the Grievant(s) to prove by a preponderance of evidence that the facts alleged are true and that a grievance has been established as specified above.

Evidence: Formal rules of evidence shall not apply. All relevant information is admissible, including but not limited to testimony of witnesses, physical objects, police reports, photographs, copies of documents, and signed and dated declarations of witnesses shown to be unavailable to attend the hearing. The Grievant(s) and the Respondent(s) have the right to question all witnesses and to review all documents presented to the Formal Grievance Hearing Committee. The Chairperson shall make all determinations as to the relevance and/or admissibility of evidence and testimony.

Exclusion of Witnesses: Hearings shall be closed and confidential. Only persons participating in the hearing shall be present during the hearing. All witnesses shall be excluded except when testifying. Both Parties shall be entitled to call witnesses presented by the other. Either party may recall a witness, who again may be questioned by both parties and the committee. A member of the Formal Grievance Hearing Committee may ask questions at any time upon recognition by the chairperson.

Conclusion: First the Grievant(s), and then the Respondent(s), shall be afforded the opportunity to make or waive a final statement.

Formal Grievance Committee Decision: Upon conclusion of the Hearing, the Formal Grievance Hearing Committee shall retire to deliberate with only members of the Grievance Committee present. Only those committee members present throughout the entire hearing may vote on the decision. The Formal Grievance Hearing Committee's deliberations shall not be tape-recorded and shall be confidential and closed to all Parties. With permission of the Grievance Hearing Committee, the Dean of Student Engagement and Belonging and/or legal counsel retained on behalf of the Committee may be consulted during deliberations to assist in procedural matters.

The Formal Grievance Hearing Committee shall meet and consider the relevance and weight of the testimony and evidence presented. This committee shall reach a decision only upon the record of the hearing and shall not consider matters outside of that record.

Within five (5) days following the conclusion of the hearing, barring any exigent circumstance, this committee shall issue a written recommendation that includes a rationale for its conclusions. The committee's recommendation shall be forwarded to the Grievance Council through the Chief Student Services Officer with copies to the Grievant(s), Respondent(s) and Dean of Student Engagement and Belonging.

Tape Recording: The Dean of Student Engagement and Belonging shall be responsible for tape recording the hearing and arranging for safe storage of the grievance file, including tape(s) and documents, for a period of no less than seven (7) years. The hearing shall be tape-recorded in accordance with the following procedures:

- All oral testimony shall be tape-recorded. If a person called upon to give oral testimony refuses to consent to being recorded, they may not testify at the hearing.
- At the beginning of every hearing, all parties present for the hearing shall verbally identify themselves by name for the tape-recording.
- The committee chairperson shall instruct all parties present for the hearing to identify themselves when speaking and instruct all present that only one person is to speak at a time so the tape-recording will be understandable.
- Only one tape-recorder shall be allowed at the hearing. No other recording device shall be allowed.

Absence of the Party: If either Party, Grievant(s) or Respondent(s), do not appear, and no satisfactory explanation for the absence is made at the earliest opportunity, or if either Party leaves the Hearing before its conclusion, the Formal Grievance Hearing Committee shall determine if the hearing should proceed without the party. The committee will decided whether they can make a determination of the information that was presented to that point.

Grievance Council

The Grievance Council shall be composed of the Chief Student Services Officer, the Vice President of Instruction/Academic Affairs, and the Chief Business Officer of the College or designees.

Upon receipt of the Formal Grievance Hearing Committee's recommendation, the Chief Student Services Officer shall call a meeting of the Grievance Council.

The Grievance Council shall consider the committee's recommendation and any materials pertinent to the grievance but shall not consider matters outside of the record. The Grievance Council shall render a written decision to the grievant(s) and the respondent(s) within five (5) days of receipt of the Formal Grievance Hearing Committee's recommendation.

Appeal

If either Party is dissatisfied with a Grievance Council's decision, a written appeal may be filed with the College President within five (5) days, barring any exigent circumstance, of receipt of the Grievance Council's decision. If the College President is a party to the grievance, the appeal will be submitted directly to the District Chancellor.

Within five (5) days, barring any exigent circumstance, the Grievance Council, or the College President (or District Chancellor if the President is a party to the grievance) shall send copies of the appeal to each party.

The College President (or the District Chancellor if the President is a party to the grievance), after reviewing the record of the Formal Grievance Hearing Committee, shall make a decision on the appeal and notify the parties in writing within five (5) days, barring any exigent circumstance.

The College President's (or the District Chancellor's if the College President is a party to the grievance) decision shall be in writing and shall include a statement of reasons for the decision. The College President's (or District Chancellor's) decision shall be final.

The decision of the Grievance Council is final. Further complaints may be submitted to the California Community College State Chancellor's Office (http://www.cccco.edu/Complaint-Process-Notice).

General Provisions

The facts of any Grievance action and the reasons shall be recorded on the student's records subject to access, review and comment by the student as authorized by the Family Education Rights and Privacy Act (FERPA) and Education Code Sections 76200 Legislative Intent through Section 76246. All access or release of such records to members of the public shall also be in accordance with applicable State and Federal laws.

The grievance file, including tapes and all documents, shall be retained in a secure location on campus for a period of seven (7) years. The Grievant(s) and the Respondent(s) may have access, upon request, to the files and tapes through the Dean of Student Engagement and Belonging. The individual making the request shall pay the costs of any copies requested.

The records shall be available only to officers or employees of the GCCCD and only used when necessary to represent the College or District in litigation or other legal or administrative proceedings.

Any specified time limits stated in these procedures may be shortened or lengthened by mutual concurrence of all parties.

Technical departures from these procedures and errors in its application shall not constitute grounds to invalidate action against a student unless, in the opinion of the College President or Designee, the technical departure or error prevented a fair determination of the issue.

Student Success and Support Program

The Student Success and Support Program is designed to assist students in planning and achieving their educational goals. The College will provide:

- Orientation – all new students must participate unless exempt (see below)
- Assessment – all new students must participate unless exempt (see below)
- Counseling for course selection and assistance in creating a student education plan
- Referrals to specialized support services
- Follow-up services to evaluate students' progress and referral to appropriate interventions

Each student has the responsibility to:

- Participate in assessment, orientation and advisement
- Identify an academic and career goal
- Declare a specific course of study
- Develop a Student Educational Plan in consultation with a counselor no later than the term after completion of 15 semester units of degree applicable credit coursework

Exemptions

A student may challenge and be exempted from the Student Success and Support Program requirements based on one or more of the following criteria;

- Has completed an associate degree or higher;
- Has enrolled at the college for a reason other than career development or advancement, transfer, attainment of a degree or certificate of achievement, or completion of a basic skills or English as a Second Language course sequence;
- Has completed these services at another community college;
- Is enrolling at the college to take a course that is legally mandated for employment or in response to a significant change in industry or licensure standards;
- Is a special admit student pursuant to Education Code 76001.

Any student exempted from orientation, assessment, counseling, advising, or student education plan development shall be notified and may be given the opportunity to participate in those services.

Cuyamaca College Complaint Procedures

There are established procedures for resolving complaints from not only prospective and current students, but also community members. For example, as a standard practice, the first step should be to seek a resolution at the local level with the appropriate department. If the complainant does not feel that the issue has been solved at this level to his or her satisfaction, the complainant is able to pursue the matter through the established chain of command. The process must be clearly stated and in compliance with Federal regulation (HEA Title 1V, CFR, Sections 600.9 and 668.4 (3) (b) since all Title 1V eligible institutions must not only have, but also state its administered complaint process.

Process for Submitting All Types of Complaints by Prospective and Current Students

Send an email to the department supervisor detailing a summary of the problem, including the steps taken to resolve the issue, and the desired outcome. If, after meeting with the department supervisor, you are not satisfied with the outcome, contact the Administrator of the appropriate Department or Division. If, after meeting with the Administrator of the appropriate Department or Division, you are not satisfied with the outcome and have taken the appropriate steps to resolve the matter through the established chain of command, contact the Vice President of that Division.

Process for Submitting All Types of Complaints by Community Members

Send an email, detailing a summary of the problem, including the steps taken to resolve the issue and the desired outcome to the Vice President of Administrative Services, Vice President of Instruction or the Vice President of Student Services or the College President.

Process for Submitting Unresolved Complaints from Prospective Students, Current Students, and/or Community Members to the State Level

Although it is our goal to resolve complaints at the campus level, there may be times when a complainant is not satisfied with the outcome. In these situations, the complainant is encouraged to contact the California Community Colleges Chancellor's Office. The form to submit your complaint can be found at www.cccco.edu/Complaint-Process-Notice (http://www.cccco.edu/Complaint-Process-Notice). There is a separate link for discrimination complaints.

Process for Submitting Discrimination Complaints

Filing a Complaint

A student or employee of a community college district who wishes to file a complaint alleging that they were subjected to unlawful discrimination may do so by filing a complaint with their community college district.

Unlawful discrimination complaints can be directed to: Vice Chancellor Human Resources, Linda.Beam@gcccd.edu

For additional information regarding the process and appeals, please refer to https://www.cccco.edu/Complaint-Process-Notice

Process for Submitting Accreditation Complaints

If you are submitting a complaint that pertains to the institution's compliance with academic program quality and accrediting standards,

please submit the information to the Accrediting Commission for Community and Junior Colleges (ACCJC), which accredits the academic programs of the California Community Colleges. The link to submit your complaint can be found at accjc.org/complaint-process/ (http://accjc.org/complaint-process/). (Nothing in this disclosure should be construed to limit any right you may have to take civil or criminal legal action to resolve your complaints.)

Student Right-to-Know Rates

For the Fall 2019 Cohort:

Completion Rate: 31.69 %

Transfer Rate: 6.07 %

In compliance with the Student-Right-To-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of our college district to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 2019, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a three-year period. Their completion and transfer rates are listed above. These rates do not represent the success rates of the entire student population at the college nor do they account for student outcomes occurring after this three-year tracking period. Based upon the cohort defined above, a Completer is a student who attained a certificate or degree or became 'transfer prepared' during a three-year period from Fall 2019 to Spring 2022. Students who have completed 60 transferable units for a GPA of 2.0 or better are considered 'transfer-prepared'. Students who transferred to another post-secondary institution, prior to attaining a degree, certificate, or becoming 'transfer prepared' during a five-semester period from Spring 2020 to Spring 2022 are transfer students.

Tutoring

We Make Good Students Better! Tutoring services are free, and students may begin using services at any point in the semester. Learning Assistants -- most of whom are current or former Cuyamaca students, themselves – help students adapt to college, learn course skills and content, refine general study skills and strategies, and become more confident, independent learners. Tutoring is offered in online, email, and in-person formats through various campus locations as well as through the Cuyamaca Virtual Tutoring Center. For more information and/or to request an appointment, please click on the blue "Tutoring" link in your course Canvas container, email cuyamaca.tutoring@gcccd.edu, visit the Tutoring website at www.cuyamaca.edu/tutoring (http://www.cuyamaca.edu/tutoring), or leave a voicemail at (619) 660-4525.

Unit Value and Student Load

College work is measured in terms of the semester Carnegie unit. In lecture courses, one hour in the classroom and two hours of study preparation per week constitute one unit of work. In the laboratory, three hours in the classroom per week with no outside study time constitute one unit of work. The number of units of credit is listed with each course description.

Full-time load is defined as a minimum of 12 units per semester (fall/spring). The load for full-time students planning to graduate in four semesters is 15-16 units per semester. Students desiring to enroll in more than 18 units during the fall and spring term and more than 9 units during summer, must obtain approval from a Counselor.

The winter intersession is considered part of spring; therefore, if the combination of winter and spring units goes over 18 units a unit overload approval will be needed.

Overload	Maximum Units Students are Able to Register for:
Fall Semester	18 units total for entire semester
Spring Semester	18 units total for entire semester
Summer Semester	9 units total for entire semester

To receive unit overload approval all of the requirements below must be met:

1. Earned a minimum of 12 units with a cumulative college GPA of 3.0 in college coursework.
2. Currently not on probation or dismissal status.

Final recommendation is based on the discretion of the Counselor.

Work Experience Education Requirements

In order to participate in Work Experience Education, students shall be enrolled as specified in Title 5, Section 55250.

The unit value for work experience or field experience is one semester unit for 54 hours of paid work experience or unpaid work experience completed during the course. The maximum occupational work experience units allowable in one semester is eight.

Specific work experience agreements between the employer-supervisor, the student and the instructor are required by the Grossmont-Cuyamaca Community College District Plan for Work Experience Education. All requirements specified in the Plan must be met, including the submittal of records validating attendance and satisfactory completion of course objectives.

199 Courses—Special Study

The special study or project (199) is for the purpose of allowing students to increase their knowledge of a subject matter not included in regular course offerings. These courses are at times referred to as Independent Study courses.

Special studies shall be available to those students who have accumulated the skills and breadth of academic experience necessary to utilize this special learning method. Special study credit shall be limited to nine semester units at Cuyamaca College. The unit value for a special study or project will be determined on the basis of one semester unit for each 48 hours of work. Coursework is degree-applicable, but not transferable.

A typewritten one-page paper describing the goals and methods of the special study or project is to be written by the student and attached to the contract. This paper will be used as a criterion for acceptance or rejection of the proposal. This paper will also be used by the instructor to evaluate the extent to which the stated goals of the special study have been achieved. Grades will be assigned by the instructor based on the level of this achievement. The Cuyamaca College grading policy applies to special study courses.

Contracts for special studies or projects are available in the Admissions and Records Office. The deadline for enrolling in a special study or project will be the end of the second week for full-term classes and the end of the first week for eight week and summer session classes.

Degree Requirements and Transfer Information

Associate Degree for Transfer

Associate Degree for Transfer℠

California Community Colleges offer Associate Degrees for Transfer (ADT) for students interested in transferring to the California State University (CSU). These include Associate in Arts (AA-T) and Associate in Science (AS-T) degrees, which are designed to provide a clear pathway to a CSU major and baccalaureate degree. Students who are awarded an ADT degree are guaranteed admission to the CSU system and given priority admission consideration to their local CSU campus or to a program deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an ADT are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0 including Cal-GETC. This degree may not be the best option for students intending to transfer to a particular CSU campus or a college not part of the CSU system.

To find out which CSU campuses accept each degree, please go to the Associate Degree for Transfer Major and Campus search website (https://www.calstate.edu/apply/transfer/pages/associate-degree-for-transfer-major-and-campus-search.aspx). Students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

AB 928 - Student Transfer Achievement Reform Act

The Student Transfer Achievement Reform Act of 2021, AB 928, directs the California Community Colleges to place students on an Associate Degree for Transfer pathway if students declare a goal of transfer and an ADT major exists. AB 928 also requires colleges to utilize a singular general education pattern that ensures students will meet academic eligibility and sufficient academic preparation for transfer admission to both the California State University (CSU) and the University of California (UC). Effective as of the 2025-2026 catalog, the general education pattern is recognized as “Cal-GETC” or “Plan B”. The updated terminology will be used in all official academic materials and CSU General Education and Intersegmental General Education Transfer Curriculum have been removed. Students who meet catalog rights and continuous attendance may utilize CSU GE and/or IGETC for their plan of study. Please meet with a Counselor for more information and to determine whether your educational plan and major require updates.

Associate Degrees

Cuyamaca College provides career, technical and general education to students who plan to complete their formal education at the community college level. In addition, the college provides the lower division requirements in general education and pre-professional majors for those students who plan to transfer to four-year colleges and universities. To assist students in educational planning, this section describes the graduation requirements for the Associate in Science (AS) degree and the Associate in Arts (AA) degree.

Granting of the AS or AA degree indicates successful completion of general education requirements, plus evidence of proficiency in a specialized field. As a member of the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, most courses taken at Cuyamaca College are fully accepted on transfer by the University of California, all California State University campuses and other universities throughout the United States.

The emphasis on career planning and education at Cuyamaca College is evidenced by the number of programs leading to the AS degree. In curriculum planning for career education, advisory committees composed of persons from various fields of specialization give of their time in order to ensure quality courses that furnish students with proficiencies essential to employment, retention on the job, and for living a more productive and full life. Students wishing to discuss career planning should consult with a counselor or a representative of the program in which they have special interest prior to registration.

General Education

Students earning the Associate in Science or the Associate in Arts degree have two general education patterns from which to choose.

Plan A: Completion of Cuyamaca College General Education Requirements; see below.

Plan B: Completion of California General Education Transfer Curriculum (Cal-GETC).

Exceptions are Associate Degrees for Transfer (ADT) and University Studies degrees, which require completion of Plan B and General Studies degrees, which require completion of Plan A. Students are encouraged to meet with a counselor for assistance in selecting the most appropriate general education pattern for their educational goal. Only one pattern may be selected.

General Education Philosophy

General education is the foundation of the Associate Degree and is designed to introduce students to diverse ways of understanding the modern world. It reflects the conviction that all degree recipients share a fundamental grasp of key principles, concepts, and methodologies both unique to and shared across disciplines.

Recipients of an Associate Degree will be equipped to:

- think critically
- communicate clearly and effectively in both oral and written discourse
- use quantitative reasoning
- apply the modes of inquiry of the major disciplines
- develop cultural and historical awareness
- gain insights through experience with analyzing ethical problems
- cultivate self-understanding

Through general education, students acquire the skills necessary to evaluate and appreciate their physical environment, culture, and society. Finally, it fosters intellectual growth and lifelong learning.

Plan A: Cuyamaca College General Education Requirements

Note: GE course choices for the Associate Degree may differ between Cuyamaca College and Grossmont College. Students should check both college catalogs for specific information if they plan to attend both campuses.

Area 1 - English Composition, Oral Communication, and Critical Thinking

Code	Title	Units
(Minimum of 6 semester units, minimum grade of "C" or "P" in each class)		
Select one course from each area:		
A. English Composition		3
ENGL-C1000	Academic Reading and Writing	
ENGL-C1001	Critical Thinking and Writing	
ESL-122	College Rhetoric	
B. Oral Communication and Critical Thinking		3
COMM-C1000	Introduction to Public Speaking	
COMM-C1004	Interpersonal Communication	
COMM-130	Fundamentals of Human Communication	
COMM-137	Critical Thinking in Group Communication	
COMM-145	Argumentation	
PHIL-125	Critical Thinking and Philosophical Composition	

Area 2 - Mathematical Concepts and Quantitative Reasoning

Code	Title	Units
(Minimum of 3 semester units, minimum grade of "C" or "P") [1]		
Select one of the following:		3
CS-181	Introduction to C++ Programming	
CS-182	Introduction to Java Programming	
CS-240	Discrete Structures	
MATH-120	Quantitative Reasoning	
MATH-125	Structure and Concepts of Elementary Mathematics I	
MATH-126	Structure and Concepts of Elementary Mathematics II	
MATH-170	Analytic Trigonometry	
MATH-175	College Algebra	
MATH-176	Precalculus: Functions and Graphs	
MATH-178	Calculus for Business, Social and Behavioral Sciences	
MATH-245	Discrete Mathematics	
MATH-281	Multivariable Calculus	
MATH-284	Linear Algebra	
MATH-285	Differential Equations	
MATH-C2210	Calculus I: Early Transcendentals	
MATH-C2220	Calculus II: Early Transcendentals	
PHIL-130	Logic	
PSY-215	Statistics for the Behavioral Sciences	
STAT-C1000	Introduction to Statistics	

[1] Intermediate Algebra may satisfy this requirement, please meet with a Counselor.

Area 3 - Arts and Humanities

Code	Title	Units
(Minimum of 3 semester units)		
Select one of the following:		3
ARAM-120	Aramaic I	
ARAM-121	Aramaic II	
ARAM-220	Aramaic III	
ARBC-120	Arabic I	
ARBC-121	Arabic II	
ARBC-122	Arabic for the Arabic Speaker I	
ARBC-123	Arabic for the Arabic Speaker II	
ARBC-130	Arabic Literature and Culture	
ARBC-145	Arabic Civilizations	
ARBC-220	Arabic III	
ARBC-221	Arabic IV	
ARBC-250	Conversational Arabic I	
ARBC-251	Conversational Arabic II	
ARBC-254	Conversational Iraqi Dialect	
ARBC-256	Conversational Levantine Dialect	
ART-100	Art Appreciation	
ART-120	Two-Dimensional Design	
ART-124	Drawing I	
ART-129	Three-Dimensional Design	
ART-142	Art of Africa, Oceania and the Americas	
ART-143	Modern Art	
ART-145	Contemporary Art	
ART-146	Asian Art	
ART-151	Chicanx Art	
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	
ASL-120	American Sign Language I	
ASL-121	American Sign Language II	
ASL-140	Inside Deaf Culture	
ASL-220	American Sign Language III	
ASL-221	American Sign Language IV	
ENGL-C1002	Introduction to Literature	
ENGL-126	Introduction to Creative Writing	
ENGL-201	Women, Gender, and Sexuality in Literature	
ENGL-202	Introduction to Film as Literature	
ENGL-217	Fantasy and Science Fiction	
ENGL-221	British Literature I	
ENGL-222	British Literature II	
ENGL-231	American Literature I	

ENGL-232	American Literature II
ENGL-236	Chicana/o Literature
ENGL-238	Black Literature
ENGL-271	World Literature II
ETHN-236	Chicana/o Literature
ETHN-238	Black Literature
HIST-100	Early World History
HIST-101	Modern World History
HIST-105	Early Western Civilization
HIST-106	Modern Western Civilization
HIST-148	The Modern Middle East
HIST-157	History Through Comics
HUM-110	Principles of the Humanities
HUM-111	Culture, Art & Ideas of the United States
HUM-115	Arts & Culture of San Diego
HUM-116	Kumeyaay Arts and Culture I
HUM-117	Kumeyaay Arts and Culture II
HUM-118	Introduction to Kumeyaay Basketry & Pottery
HUM-140	Humanities of the Americas
HUM-155	World Mythology through the Humanities
KUMY-116	Kumeyaay Arts and Culture I
KUMY-117	Kumeyaay Arts and Culture II
KUMY-118	Introduction to Kumeyaay Basketry & Pottery
KUMY-120	Kumeyaay Language I
KUMY-121	Kumeyaay Language II
KUMY-220	Kumeyaay Language III
MUS-110	Great Music Listening
MUS-111	History of Jazz
MUS-115	History of Rock Music
MUS-116	Introduction to World Music
MUS-117	Introduction to Music History and Literature
MUS-123	History of Hip Hop Culture
PHIL-110	A General Introduction to Philosophy
PHIL-115	History of Philosophy I: Ancient and Medieval
PHIL-117	History of Philosophy II: Modern and Contemporary
PHIL-140	Problems in Ethics
PHIL-141	Bioethics
RELG-120	World Religions
RELG-135	Religion in the Middle East
RELG-170	Introduction to Christianity
SPAN-120	Spanish I
SPAN-121	Spanish II
SPAN-141	Spanish and Latin American Cultures
SPAN-145	Hispanic Civilizations
SPAN-220	Spanish III
SPAN-221	Spanish IV
SPAN-250	Conversational Spanish I
SPAN-251	Conversational Spanish II
THTR-110	Introduction to the Theatre

Area 4 - Social and Behavioral Sciences

Code	Title	Units
(Minimum of 3 semester units)		
Select one of the following:		3
ANTH-120	Cultural Anthropology	
ANTH-140	Introduction to Archaeology	
CD-115	Changing American Family	
CD-131	Child, Family and Community	
CD-145	Child Abuse and Family Violence in Our Society	
CDEV-C1000	Child Growth and Development	
COMM-110	Introduction to Mass Communication	
COMM-124	Intercultural Communication	
COUN-125	Diversity, Identity, and Career Development in the Workplace	
COUN-135	Counseling and Identity in a Modern Multicultural Society	
COUN-140	Self Awareness and Interpersonal Relationships	
ECON-110	Economic Issues and Policies	
ECON-C2001	Principles of Microeconomics	
ECON-C2002	Principles of Macroeconomics	
ES-121	Introduction to Sport, Exercise, and Performance Psychology	
ETHN-107	History of Race & Ethnicity in the United States	
ETHN-114	Introduction to Race & Ethnicity	
ETHN-120	Introduction to Ethnic Studies	
ETHN-128	Introduction to Chicana/o Studies	
ETHN-130	U.S. History and Cultures: Native American Perspectives I	
ETHN-131	U.S. History and Cultures: Native American Perspectives II	
ETHN-145	Introduction to Black Studies	
ETHN-162	Introduction to Asian American Studies	
GEND-116	Introduction to Women's Studies	
GEND-117	Introduction to LGBTQ Studies	
GEND-119	Psychology of Gender	
GEOG-106	World Regional Geography	
GEOG-130	Human Geography: The Cultural Landscape	
HED-120	Personal Health and Lifestyles	
HED-201	Introduction to Public Health	
HED-203	Substance Abuse and Public Health	
HED-204	Health and Social Justice	
HED-251	Healthy Lifestyles: Theory and Application	
HIST-C1001	United States History to 1877	
HIST-C1002	United States History since 1865	
HIST-107	History of Race & Ethnicity in the United States	
HIST-114	Comparative History of the Early Americas	

HIST-115	Comparative History of the Modern Americas
HIST-118	U.S. History: Chicano/Chicana Perspectives I
HIST-119	U.S. History: Chicano/Chicana Perspectives II
HIST-122	Women in Early American History
HIST-123	Women in Modern American History
HIST-124	History of California
HIST-128	Kumeyaay History I: Precontact - 1845
HIST-129	Kumeyaay History II: 1846 - Present
HIST-130	U.S. History and Cultures: Native American Perspectives I
HIST-131	U.S. History and Cultures: Native American Perspectives II
HIST-180	U.S. History: Black Perspectives I
HIST-181	U.S. History: Black Perspectives II
KUMY-128	Kumeyaay History I: Precontact - 1845
KUMY-129	Kumeyaay Hist II: 1846 - Present
KUMY-150	Introduction to Cultural Resource Management
KUMY-160	Introduction to Archaeological Field Work
KUMY-166	Introduction to Native American Politics and Policy
KUMY-170	Kumeyaay Conflict Resolution
NUTR-155	Introduction to Human Nutrition
NUTR-158	Nutrition for Fitness and Sports
POLS-C1000	American Government and Politics
POSC-120	Introduction to Politics and Political Analysis
POSC-124	Introduction to Comparative Government and Politics
POSC-130	Introduction to International Relations
POSC-140	Introduction to California Governments and Politics
POSC-145	Introduction to Latin American Government and Politics
POSC-147	Introduction to Middle East Government and Politics
POSC-148	American Foreign Policy
POSC-150	Introduction to Political Theory
POSC-165	Introduction to the Politics of Race and Gender
POSC-166	Introduction to Native American Politics and Policy
POSC-170	Introduction to Political Science Research Methods
POSC-180	Introduction to Public Policy
PSYC-C1000	Introduction to Psychology
PSY-119	Psychology of Gender
PSY-121	Introduction to Sport, Exercise, and Performance Psychology
PSY-125	Cross-Cultural Psychology
PSY-132	Psychology of Health
PSY-134	Human Sexuality
PSY-138	Social Psychology
PSY-140	Physiological Psychology
PSY-150	Developmental Psychology
PSY-170	Abnormal Psychology
PSY-211	Cognitive Psychology
PSY-220	Learning
RELG-175	Religion, Government and Politics in America
SOCI-C1000	Introduction to Sociology
SOC-114	Introduction to Race & Ethnicity
SOC-125	Marriage, Family, and Alternative Lifestyles
SOC-130	Contemporary Social Problems
SOC-138	Social Psychology
SOC-140	Sex and Gender Across Cultures
SOC-150	Latinx Communities in the United States
SW-170	Kumeyaay Conflict Resolution

Area 5 - Natural Sciences and Laboratory

Code	Title	Units
(Minimum of 4 semester units)		
Select one of the following courses that includes a laboratory:		4
ANTH-C1001	Introduction to Biological Anthropology [3]	
ASTR-C1001	Introduction to Astronomy	
ASTR-C1001L	Introduction to Astronomy Lab [1]	
BIOL-C1000	Introduction to Biology With Lab [1]	
BIO-105	Marine Biology [1]	
BIO-122	The Secret Life of Plants [1]	
BIO-133	Ethnoecology	
BIO-134	Ethnobotany	
BIO-135	Ethnobotany/Ethnoecology Lab [1]	
BIO-140	Human Anatomy [1]	
BIO-141	Human Physiology	
BIO-141L	Laboratory in Human Physiology [1]	
BIO-152	Paramedical Microbiology [1]	
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology [1]	
BIO-240	Principles of Ecology, Evolution and Organismal Biology [1]	
CHEM-102	Introduction to General, Organic and Biological Chemistry [1]	
CHEM-120	Preparation for General Chemistry [1,2]	
CHEM-141	General Chemistry I [1]	
CHEM-142	General Chemistry II [1]	
CHEM-231	Organic Chemistry I [1]	
CHEM-232	Organic Chemistry II [1]	
ET-110	Introduction to Electricity and Electronics [1]	
GEOG-120	Physical Geography: Earth Systems	
GEOG-121	Physical Geography: Earth Systems Laboratory [1]	
GEOL-104	Earth Science	
GEOL-110	Planet Earth	
GEOL-111	Planet Earth Laboratory [1]	
KUMY-133	Ethnoecology	

KUMY-134	Ethnobotany
KUMY-135	Ethnobotany/Ethnoecology Lab [1]
OCEA-112	Introduction to Oceanography
OCEA-113	Oceanography Laboratory [1]
PHYC-110	Introductory Physics [1]
PHYC-130	Fundamentals of Physics [1]
PHYC-131	Fundamentals of Physics [1]
PHYC-201	Mechanics and Waves [1]
PHYC-202	Electricity, Magnetism, and Heat [1]
PHYC-203	Light, Optics, and Modern Physics [1]

[1] Laboratory course.
[2] Students will not receive credit for more than one of the following courses: CHEM-115 Fundamentals of Chemistry (at Grossmont College), CHEM-120 Preparation for General Chemistry.
[3] Corresponding lab is offered at Grossmont College.

Area 6 - Ethnic Studies

Code	Title	Units
(Minimum 3 semester units)		
Select one of the following:		3
ENGL-236	Chicana/o Literature	
ENGL-238	Black Literature	
ETHN-107	History of Race & Ethnicity in the United States	
ETHN-114	Introduction to Race & Ethnicity	
ETHN-128	Introduction to Chicana/o Studies	
ETHN-145	Introduction to Black Studies	
ETHN-162	Introduction to Asian American Studies	
ETHN-236	Chicana/o Literature	
ETHN-238	Black Literature	
HIST-107	History of Race & Ethnicity in the United States	
SOC-114	Introduction to Race & Ethnicity	

Area 7 - Lifelong Learning, Exercise Science, and Wellness

Code	Title	Units
(Minimum of 3 semester units from A and 1 semester unit from B)		
Select one course from each area:		
A: Lifelong Learning		3
BUS-195	Principles of Money Management for Success	
CD-145	Child Abuse and Family Violence in Our Society	
CDEV-C1000	Child Growth and Development	
CIS-110	Principles of Information Systems	
COUN-120	College and Career Success	
COUN-140	Self Awareness and Interpersonal Relationships	
HED-120	Personal Health and Lifestyles	
HED-201	Introduction to Public Health	
HED-203	Substance Abuse and Public Health	
HED-251	Healthy Lifestyles: Theory and Application	
NUTR-155	Introduction to Human Nutrition	
NUTR-158	Nutrition for Fitness and Sports	
NUTR-255	Science of Nutrition	
PSY-132	Psychology of Health	
PSY-134	Human Sexuality	
PSY-140	Physiological Psychology	
PSY-150	Developmental Psychology	
PSY-220	Learning	
SOC-125	Marriage, Family, and Alternative Lifestyles	
B: Exercise Science and Wellness [1]		1
ES-001	Adapted Physical Exercise	
ES-008A	Beginning Indoor Cycling	
ES-008B	Intermediate Indoor Cycling	
ES-008C	Advanced Indoor Cycling	
ES-009A	Beginning Cardio Dance Exercise	
ES-009B	Intermediate Cardio Dance Exercise	
ES-009C	Advanced Cardio Dance Exercise	
ES-014A	Beginning Weight Training	
ES-014B	Intermediate Weight Training	
ES-014C	Advanced Weight Training	
ES-019A	Beginning Physical Fitness	
ES-019B	Intermediate Physical Fitness	
ES-019C	Advanced Physical Fitness	
ES-024A	Beginning Fitness Boot Camp	
ES-024B	Intermediate Fitness Boot Camp	
ES-024C	Advanced Fitness Boot Camp	
ES-028A	Beginning Yoga	
ES-028B	Intermediate Yoga	
ES-028C	Advanced Yoga	
ES-060A	Beginning Badminton	
ES-060B	Intermediate Badminton	
ES-060C	Advanced Badminton	
ES-061A	Beginning Pickleball	
ES-061B	Intermediate Pickleball	
ES-061C	Advanced Pickleball	
ES-076A	Beginning Tennis	
ES-076B	Intermediate Tennis	
ES-076C	Advanced Tennis	
ES-155A	Beginning Basketball	
ES-155B	Intermediate Basketball	
ES-155C	Advanced Basketball	
ES-170A	Beginning Soccer	
ES-170B	Intermediate Soccer	
ES-170C	Advanced Soccer	
ES-175A	Beginning Volleyball	
ES-175B	Intermediate Volleyball	
ES-175C	Advanced Volleyball	
ES-180	Self Defense for Women	
ES-206	Intercollegiate Basketball	
ES-209	Intercollegiate Cross Country	
ES-213	Intercollegiate Golf	

ES-218	Intercollegiate Soccer
ES-224	Intercollegiate Tennis
ES-227	Intercollegiate Track
ES-230	Intercollegiate Volleyball

[1] Veterans who have completed at least one year of honorable active service will receive up to 3 units of credit for exercise science which will satisfy Area 7B of general education. To receive credit for military service, a DD-214 and appropriate military records must be submitted to the Admissions and Records Office.

Plan A: Degree Requirements

Cuyamaca College will confer the degree of Associate in Science or Associate in Arts upon students who successfully complete the following requirements. Please note, Associate Degree for Transfer requirements may slightly differ per regulations.

1. A minimum of 60 semester units of college work.
2. Achievement of a "C" average (2.0 GPA) in all college work counted toward general education requirements.
    1. If units accumulated beyond those required for the associate degree lower a student's cumulative grade point average below 2.0, then the student may request to have their grade point average computed solely on those courses used to satisfy the degree requirements, provided that the coursework used to compute the grade point average fulfill all major/area of emphasis and general education requirements.
3. Achievement of a "C" grade or better or a "P"[1] in all courses counted towards a major requirement.
4. A maximum of 12 "P"[1] semester units taken in regular course work at this institution may be counted toward the 60 semester units required for graduation.
5. Residency: Students enrolled at Grossmont Cuyamaca Community College District (GCCCD) during the semester in which they will have met all graduation requirements may obtain their degree from GCCCD if they have satisfactorily completed at least 12 degree applicable semester units at GCCCD. Credit for Prior Learning or Career Technical Preparation shall not count toward the residence requirement for graduation.
6. Petition for Graduation
    1. It is the responsibility of the student who expects to graduate to file a written petition for graduation on the form provided by the Admissions and Records Office. The application should be filed prior to the deadline for the semester in which the student plans to complete requirements for a degree. (See Academic Calendar for deadline dates.)
    2. Official transcripts from all colleges attended must be on file in the Admissions and Records Office.
    3. The student may choose to meet requirements in a catalog published after admission provided continuous attendance is maintained. A student not in continuous attendance at Cuyamaca College should be aware that he/she must meet degree requirements listed in the catalog in effect at the time of readmission unless he/she has applied for and been granted a leave of absence.
7. Major Requirements
   See "Associate Degree Programs and Certificates" for the major areas for the AS and AA degrees.
8. Additional Associate Degree
   An additional associate degree may be earned under the following conditions:
    1. Having received an associate's degree or higher, the student will not receive an AA or AS degree in the same area, unless the field is broad enough that the new courses would not be a repetition of content from previous education.
    2. All General Education requirements as specified by the current catalog are met.
    3. Completion of a major as specified in this catalog with a minimum of 12 remaining required semester units in the major completed in the district subsequent to the preceding degree(s) at any college, with the exception of an Associate Degree for Transfer (ADT).
9. Multiple Majors
   Multiple majors differ from additional associate degrees (see section above) in that the student with a multiple major works simultaneously toward the completion of more than one major. An AA or AS degree with a multiple major can be earned by completion of all general education requirements plus the courses required for both majors as outlined in this catalog. The General AA degree offered for catalog years 1978-79 through 2007-08 may not be included as part of the multiple major.
10. Students who have been awarded a bachelor's degree from an institutionally accredited institution have fulfilled the local general education requirements for the Associate degree.

[1] A grade of "P" (Pass) represents a "C" grade or better.

Certificates of Achievement

Certificates of Achievement are awarded to students who have attained well-defined levels of competency in specific areas. To qualify for a Certificate of Achievement, a student must:

1. Complete all courses which are listed for the major area in the Associate Degree Programs and Certificates section of this catalog.
2. Achieve a "C" or better or a "P" in all courses which are to be applied toward the certificate.
3. Complete the last course required for the certificate at Cuyamaca College.
4. File a petition for the certificate in the Admissions and Records Office before the deadline of the semester in which the requirements will be completed. (See Academic Calendar for deadline dates.)
5. Meet the requirements in a catalog published after admission provided continuous attendance is maintained. A student not in continuous attendance at Cuyamaca or Grossmont College should be aware that he/she must meet certificate requirements listed in the catalog in effect at the time of readmission.

Certificates of Specialization

Certificates of Specialization are awarded to students who have achieved an acceptable foundation of knowledge in a specific area. Students receiving only a Certificate of Specialization are not able to participate in commencement. To qualify for a Certificate of Specialization, a student must:

1. Complete all courses which are listed for the certificate in the Associate Degree Programs and Certificates section of this catalog.
2. Achieve a "C" or better or a "P" in all courses which are to be applied toward the certificate.

3. Complete the last course required for the certificate at Cuyamaca College.
4. File a petition for the certificate in the Admissions and Records Office before the deadline of the semester in which the requirements will be completed. (See Academic Calendar for deadline dates.)
5. Meet the requirements in a catalog published after admission provided continuous attendance is maintained. A student not in continuous attendance at Cuyamaca or Grossmont College should be aware that he/she must meet certificate requirements listed in the catalog in effect at the time of readmission.

Transfer Information

This section of the catalog is designed primarily to assist students who plan to further their education in a four-year institution. Although every effort has been made to assure the accuracy of the following transfer information at the time of catalog publication, changes may occur. Students are encouraged to make an early selection of the four-year institution and to check its catalog for more precise information. Counselors are available to assist students with program selection and planning. It is recommended that students utilize ASSIST (https://assist.org/) to access course equivalencies with many UC and CSU campuses. ASSIST is the recognized source of statewide articulation data. Students should also utilize the resources found on the Cuyamaca College Transfer Center website (https://www.cuyamaca.edu/student-support/transfer-center/) or G-200 in the Student Services building.

Students who plan to transfer may meet general education transfer requirements through the University Studies major. For requirements, see "University Studies" in the Associate Degree Programs and Certificates section of the catalog.

Plan B: California General Education Transfer Curriculum (Cal-GETC)

The California General Education Transfer Curriculum (Cal-GETC) is a general education package which community college transfer students can take to fulfill lower division general education requirements for either the CSU or UC system.

Completion of Cal-GETC is not a requirement for transfer to a CSU or UC campus, nor is it the only way to fulfill lower division general education requirements. Students who maintained continuous attendance and catalog rights prior to Fall 2025 may utilize CSU GE or IGETC for their plan of study. Students should see a counselor before deciding on an alternative that best meets their own needs.

There is no catalog year or rule of continuing attendance for Cal-GETC certification. A course is certifiable if it was on the Cal-GETC list at the time the course was taken.

Cuyamaca College students may be "certified" upon completion of Cal-GETC requirements. Courses completed at California community colleges and participating institutions will be certified based on approval at the original campus. Courses taken at other colleges and universities; i.e. out-of-state or private, may be used in the certification under certain conditions. Certifications are processed in the Admissions and Records Office.

All courses must be completed with a grade of "C" or better or "Pass." There is a limit to the number of courses taken with a grade of "Pass." Check with a counselor.

Attention students: Cal-GETC choices for transfer may differ between Cuyamaca and Grossmont. If you plan to attend both colleges, it is strongly recommended that you visit the Counseling Centers or visit the individual college websites from the district homepage (https://www.gcccd.edu/) for specific information.

Up-to-date at time of catalog printing. Please see a counselor for changes.

Area 1 – English Communication

(3 courses required, 9 semester units)

One course from each area.

Code	Title	Units
A. English Composition		
ENGL-C1000	Academic Reading and Writing	4
ESL-122	College Rhetoric	6
B. Critical Thinking and Composition		
ENGL-C1001	Critical Thinking and Writing	3
PHIL-125	Critical Thinking and Philosophical Composition [1]	3
C. Oral Communication		
COMM-C1000	Introduction to Public Speaking	3

[1] PHIL 125 does not meet UC-E admissions requirements; course should only be selected if CSU bound.

Area 2 – Mathematical Concepts and Quantitative Reasoning

(1 course required, 3 semester units)

Code	Title	Units
MATH-120	Quantitative Reasoning [1]	3
MATH-125	Structure and Concepts of Elementary Mathematics I [1]	3
MATH-126	Structure and Concepts of Elementary Mathematics II [1]	3
MATH-175	College Algebra [1]	4
MATH-176	Precalculus: Functions and Graphs [1]	6
MATH-178	Calculus for Business, Social and Behavioral Sciences [1]	4
MATH-245	Discrete Mathematics	3
MATH-281	Multivariable Calculus	4
MATH-284	Linear Algebra	3
MATH-285	Differential Equations	3
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
PSY-215	Statistics for the Behavioral Sciences [1]	4
STAT-C1000	Introduction to Statistics [1]	4

[1] Indicates that transfer credit may be limited by UC or CSU or both. Please consult with a counselor.

Area 3 – Arts and Humanities

(2 courses required, 6 semester units)

One course from Arts and one from Humanities.

Code	Title	Units
A. Arts		
ART-100	Art Appreciation	3
ART-120	Two-Dimensional Design	3
ART-142	Art of Africa, Oceania and the Americas	3
ART-143	Modern Art	3
ART-145	Contemporary Art	3
ART-146	Asian Art	3
ART-151	Chicanx Art	3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	3
HIST-157	History Through Comics	3
MUS-110	Great Music Listening	3
MUS-111	History of Jazz	3
MUS-115	History of Rock Music	3
MUS-116	Introduction to World Music	3
MUS-117	Introduction to Music History and Literature	3
MUS-123	History of Hip Hop Culture	3
THTR-110	Introduction to the Theatre	3
B. Humanities		
ARAM-121	Aramaic II	5
ARAM-220	Aramaic III	5
ARBC-121	Arabic II	5
ARBC-123	Arabic for the Arabic Speaker II	5
ARBC-130	Arabic Literature and Culture	3
ARBC-145	Arabic Civilizations	3
ARBC-220	Arabic III	5
ARBC-221	Arabic IV	5
ASL-121	American Sign Language II	4
ASL-140	Inside Deaf Culture	3
ASL-220	American Sign Language III	4
ASL-221	American Sign Language IV	4
ENGL-C1002	Introduction to Literature	3
ENGL-201	Women, Gender, and Sexuality in Literature	3
ENGL-202	Introduction to Film as Literature	3
ENGL-217	Fantasy and Science Fiction	3
ENGL-221	British Literature I	3
ENGL-222	British Literature II	3
ENGL-231	American Literature I	3
ENGL-232	American Literature II	3
ENGL-236	Chicana/o Literature	3
ENGL-238	Black Literature	3
ENGL-271	World Literature II	3
ETHN-236	Chicana/o Literature	3
ETHN-238	Black Literature	3
HIST-100	Early World History	3
HIST-101	Modern World History	3
HIST-105	Early Western Civilization	3
HIST-106	Modern Western Civilization	3
HIST-148	The Modern Middle East	3
HUM-110	Principles of the Humanities	3
HUM-111	Culture, Art & Ideas of the United States	3
HUM-115	Arts & Culture of San Diego	3
HUM-116	Kumeyaay Arts and Culture I	3
HUM-117	Kumeyaay Arts and Culture II	3
HUM-140	Humanities of the Americas	3
HUM-155	World Mythology through the Humanities	3
KUMY-116	Kumeyaay Arts and Culture I	3
KUMY-117	Kumeyaay Arts and Culture II	3
KUMY-121	Kumeyaay Language II	4
KUMY-220	Kumeyaay Language III	4
PHIL-110	A General Introduction to Philosophy	3
PHIL-115	History of Philosophy I: Ancient and Medieval	3
PHIL-117	History of Philosophy II: Modern and Contemporary	3
PHIL-140	Problems in Ethics	3
RELG-120	World Religions	3
RELG-135	Religion in the Middle East	3
RELG-170	Introduction to Christianity	3
SPAN-121	Spanish II	5
SPAN-141	Spanish and Latin American Cultures	3
SPAN-145	Hispanic Civilizations	3
SPAN-220	Spanish III	5
SPAN-221	Spanish IV	5

Area 4 – Social and Behavioral Sciences

(2 courses required, 6 semester units)

Courses must be taken from 2 different disciplines.

Code	Title	Units
ANTH-120	Cultural Anthropology	3
ANTH-140	Introduction to Archaeology	3
CD-115	Changing American Family	3
CD-131	Child, Family and Community	3
CDEV-C1000	Child Growth and Development	3
COMM-110	Introduction to Mass Communication	3
COMM-124	Intercultural Communication	3
ECON-110	Economic Issues and Policies [1]	3
ECON-C2001	Principles of Microeconomics	3
ECON-C2002	Principles of Macroeconomics	3
ETHN-107	History of Race & Ethnicity in the United States	3
ETHN-114	Introduction to Race & Ethnicity	3
ETHN-120	Introduction to Ethnic Studies	3
ETHN-128	Introduction to Chicana/o Studies	3
ETHN-130	U.S. History and Cultures: Native American Perspectives I	3
ETHN-131	U.S. History and Cultures: Native American Perspectives II	3
ETHN-145	Introduction to Black Studies	3

ETHN-162	Introduction to Asian American Studies	3
GEND-116	Introduction to Women's Studies	3
GEND-117	Introduction to LGBTQ Studies	3
GEND-119	Psychology of Gender	3
GEOG-106	World Regional Geography	3
GEOG-130	Human Geography: The Cultural Landscape	3
HED-201	Introduction to Public Health	3
HED-204	Health and Social Justice	3
HIST-C1001	United States History to 1877	3
HIST-C1002	United States History since 1865	3
HIST-100	Early World History	3
HIST-101	Modern World History	3
HIST-105	Early Western Civilization	3
HIST-106	Modern Western Civilization	3
HIST-107	History of Race & Ethnicity in the United States	3
HIST-114	Comparative History of the Early Americas	3
HIST-115	Comparative History of the Modern Americas	3
HIST-118	U.S. History: Chicano/Chicana Perspectives I	3
HIST-119	U.S. History: Chicano/Chicana Perspectives II	3
HIST-122	Women in Early American History	3
HIST-123	Women in Modern American History	3
HIST-124	History of California	3
HIST-128	Kumeyaay History I: Precontact - 1845	3
HIST-129	Kumeyaay History II: 1846 - Present	3
HIST-130	U.S. History and Cultures: Native American Perspectives I	3
HIST-131	U.S. History and Cultures: Native American Perspectives II	3
HIST-148	The Modern Middle East	3
HIST-180	U.S. History: Black Perspectives I	3
HIST-181	U.S. History: Black Perspectives II	3
HIST-275	Historical Period	3
HIST-276	Geographical Area	3
HIST-277	Historical Theme	3
KUMY-128	Kumeyaay History I: Precontact - 1845	3
KUMY-129	Kumeyaay Hist II: 1846 - Present	3
KUMY-150	Introduction to Cultural Resource Management	3
KUMY-160	Introduction to Archaeological Field Work	3
KUMY-166	Introduction to Native American Politics and Policy	3
POLS-C1000	American Government and Politics	3
POSC-120	Introduction to Politics and Political Analysis	3
POSC-124	Introduction to Comparative Government and Politics	3
POSC-130	Introduction to International Relations	3
POSC-140	Introduction to California Governments and Politics	3
POSC-145	Introduction to Latin American Government and Politics	3
POSC-147	Introduction to Middle East Government and Politics	3
POSC-148	American Foreign Policy	3
POSC-150	Introduction to Political Theory	3
POSC-165	Introduction to the Politics of Race and Gender	3
POSC-166	Introduction to Native American Politics and Policy	3
POSC-170	Introduction to Political Science Research Methods	3
POSC-180	Introduction to Public Policy	3
PSYC-C1000	Introduction to Psychology	3
PSY-119	Psychology of Gender	3
PSY-125	Cross-Cultural Psychology	3
PSY-134	Human Sexuality	3
PSY-138	Social Psychology	3
PSY-140	Physiological Psychology	3
PSY-150	Developmental Psychology	3
PSY-170	Abnormal Psychology	3
PSY-211	Cognitive Psychology	3
PSY-220	Learning	3
RELG-175	Religion, Government and Politics in America	3
SOCI-C1000	Introduction to Sociology	3
SOC-114	Introduction to Race & Ethnicity	3
SOC-125	Marriage, Family, and Alternative Lifestyles	3
SOC-130	Contemporary Social Problems	3
SOC-138	Social Psychology	3
SOC-140	Sex and Gender Across Cultures	3
SOC-150	Latinx Communities in the United States	3

[1] Indicates that transfer credit may be limited by UC or CSU or both. Please consult with a counselor.

Area 5 – Physical and Biological Sciences

(At least 2 courses required, 7 semester units)

One Physical Science course and one Biological Science course; at least one must include a laboratory. Laboratory courses must correspond to related lecture courses.

Code	Title	Units
A. Physical Sciences		
ASTR-C1001	Introduction to Astronomy	3
ASTR-C1001L	Introduction to Astronomy Lab [1]	1
CHEM-102	Introduction to General, Organic and Biological Chemistry [1,2]	5
CHEM-120	Preparation for General Chemistry [1,2]	4
CHEM-141	General Chemistry I [1]	5
CHEM-142	General Chemistry II [1]	5
CHEM-231	Organic Chemistry I [1]	5
CHEM-232	Organic Chemistry II [1]	5
GEOG-120	Physical Geography: Earth Systems [3]	3

GEOG-121	Physical Geography: Earth Systems Laboratory [1,3]	1
GEOL-104	Earth Science [3]	3
GEOL-110	Planet Earth	3
GEOL-111	Planet Earth Laboratory [1]	1
OCEA-112	Introduction to Oceanography	3
OCEA-113	Oceanography Laboratory [1]	1
PHYC-110	Introductory Physics [1,2]	4
PHYC-130	Fundamentals of Physics [1,2]	4
PHYC-131	Fundamentals of Physics [1,2]	4
PHYC-201	Mechanics and Waves [1,2]	5
PHYC-202	Electricity, Magnetism, and Heat [1,2]	5
PHYC-203	Light, Optics, and Modern Physics [1,2]	5
B. Biological Sciences		
ANTH-C1001	Introduction to Biological Anthropology	3
BIOL-C1000	Introduction to Biology With Lab [1]	4
BIOL-C1001	Introduction to Biology	3
BIO-112	Contemporary Issues in Environmental Resources	3
BIO-122	The Secret Life of Plants [1]	4
BIO-133	Ethnoecology [4]	3
BIO-134	Ethnobotany [4]	3
BIO-135	Ethnobotany/Ethnoecology Lab [1,4]	1
BIO-140	Human Anatomy [1]	4
BIO-141	Human Physiology	3
BIO-141L	Laboratory in Human Physiology [1]	1
BIO-152	Paramedical Microbiology [1]	5
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology [1]	4
BIO-240	Principles of Ecology, Evolution and Organismal Biology [1]	5
KUMY-133	Ethnoecology [4]	3
KUMY-134	Ethnobotany [4]	3
KUMY-135	Ethnobotany/Ethnoecology Lab [1,4]	1
C. Laboratory		
This requirement is met by completing a lab course or a combined lecture/lab in 5A or 5B. Lab must correspond to its related lecture course.		

1. Laboratory course.
2. Transfer credit may be limited by UC or CSU or both. Please consult with a counselor.
3. GEOG-121 Physical Geography: Earth Systems Laboratory corresponds to either GEOG-120 Physical Geography: Earth Systems or GEOL-104 Earth Science.
4. BIO-135 Ethnobotany/Ethnoecology Lab and KUMY-135 Ethnobotany/Ethnoecology Lab correspond to BIO-133 Ethnoecology, BIO-134 Ethnobotany, KUMY-133 Ethnoecology, or KUMY-134 Ethnobotany.

Area 6 – Ethnic Studies

(1 course, 3 semester units)

Code	Title	Units
ENGL-236	Chicana/o Literature	3
ENGL-238	Black Literature	3
ETHN-107	History of Race & Ethnicity in the United States	3
ETHN-114	Introduction to Race & Ethnicity	3
ETHN-128	Introduction to Chicana/o Studies	3
ETHN-145	Introduction to Black Studies	3
ETHN-162	Introduction to Asian American Studies	3
ETHN-236	Chicana/o Literature	3
ETHN-238	Black Literature	3
HIST-107	History of Race & Ethnicity in the United States	3
SOC-114	Introduction to Race & Ethnicity	3

U.S. History, Constitution, and American Ideals Requirement

The California State University requires students to complete courses or examinations that address:

Area US-1 (The historical development of American institutions and ideals), **and**

Area US-2 (The Constitution of the United States and the operation of representative democratic government under that Constitution), **and**

Area US-3 (The process of California state and local government).

This requirement may be fulfilled at Cuyamaca College prior to transfer by completing courses that satisfy all three areas. Courses used to satisfy this requirement may also be applied to Cal-GETC.

Students are required to complete two courses- one from List A and one from List B.

Code	Title	Units
List A (Approved for US-1 & US-2)		
ETHN-107	History of Race & Ethnicity in the United States	3
ETHN-130	U.S. History and Cultures: Native American Perspectives I	3
HIST-C1001	United States History to 1877	3
HIST-107	History of Race & Ethnicity in the United States	3
HIST-114	Comparative History of the Early Americas	3
HIST-118	U.S. History: Chicano/Chicana Perspectives I	3
HIST-122	Women in Early American History	3
HIST-130	U.S. History and Cultures: Native American Perspectives I	3
HIST-180	U.S. History: Black Perspectives I	3
List B (Approved for US-3)		
ETHN-131	U.S. History and Cultures: Native American Perspectives II	3
HIST-C1002	United States History since 1865	3
HIST-115	Comparative History of the Modern Americas	3
HIST-119	U.S. History: Chicano/Chicana Perspectives II	3
HIST-123	Women in Modern American History	3
HIST-124	History of California	3

HIST-131	U.S. History and Cultures: Native American Perspectives II	3
HIST-181	U.S. History: Black Perspectives II	3
POLS-C1000	American Government and Politics	3
POSC-140	Introduction to California Governments and Politics	3

Please note: Courses may differ between Cuyamaca and Grossmont Colleges.

UC bound students meet the American Institutions requirement with a one-year course in U.S. history and government in high school with a grade of "C" or better. Students should discuss with a Counselor to verify this graduation requirement is complete.

University of California

The University of California is an integral part of the public education system of California. Its campuses usually accept at full unit value transfer courses completed with satisfactory grades in the public community colleges of the state. Students intending to continue their studies at the University of California will find it advantageous to complete their lower division requirements at Cuyamaca College. However, students should become familiar with specific requirements of the particular campus to which transfer is planned by examining the University catalogs and separate bulletins of the various schools and colleges of the University.

The campuses of the University of California are located in:

Berkeley
Davis
Irvine
Los Angeles
Merced
Riverside
San Diego
San Francisco (Medical Center)
Santa Barbara
Santa Cruz

UC Transfer Admission Guarantee (TAG)

Students may apply for TAG at one of the 6 participating UC campuses: Davis, Irvine, Merced, Riverside, Santa Barbara, and Santa Cruz. Students may apply for the TAG at only one UC campus. The following UC Campuses do not participate in TAG: Berkeley, Los Angeles and San Diego.

- The first step in the UC application process is to fill out an online TAG application during the month of September. Visit the Transfer Center website (https://www.cuyamaca.edu/student-support/transfer-center/uc-tag.php) for more information.
- The second step is to fill out an online application for admission during the months of October and November. Visit the UC Admissions website (https://admission.universityofcalifornia.edu/) for more information.

UC TAG Minimum Requirements

- 60 UC-transferable semester units
- Maintain acceptable GPA for your major and for specific UC campus
- Two UC-transferable English composition courses
- One UC-transferable mathematics course
- A full certification of Cal-GETC or 7 course pattern

Please check each UC campus website for specific TAG requirements

Articulation agreements have been completed with most campuses of the University of California (see Assist (https://assist.org/)). Specific courses required for major preparation should be discussed with a counselor.

UCSD University Link Program

University Link is the guarantee admission program to UCSD for high school seniors, Veterans and former foster youth attending one of the University Link local partner community colleges.

To be eligible for the University Link Program, the University Link agreement must be signed and submitted online to UCSD during your first year at the community college (high school students only). Please see a counselor for more details.

UCSD University Link Minimum Eligibility Requirements

- 60 UC-transferable semester units
- Meet UC subject eligibility
- Maintain a minimum cumulative GPA of 3.5 in all UC-transferable courses
- Two UC-transferable English composition courses
- One UC-transferable mathematics course
- Completion of 7 course pattern
- Family income is no more than $40,000 per year (U.S. students only)

Complete **all articulated** UC San Diego major preparation available at your local partner community college and declare a major at the time of completing the UC San Diego admissions application. Please note that completion of minimum transfer major preparation is required for the majors delineated on the UCSD transfer major preparation website (https://admissions.ucsd.edu/transfer/transfer-major-preparation.html).

University of California Credit Limitation

Up-to-date at time of catalog printing.

Subject	Credit Limitation
Biological Sciences	No credit for BIOL-C1000 if taken after BIOL-C1001 or BIO-230
CADD Technology	All CADD courses, ENGR-119, ENGR-129, OH-200 and OH-201 combined: maximum credit, one course
Chemistry	No credit for CHEM-102 or CHEM-120 if taken after CHEM-141.
Counseling	COUN-120 and COUN-150 combined: maximum credit, one course.
Economics	No credit for ECON-110 if taken after ECON-C2001 or ECON-C2002.
Engineering	All CADD courses, ENGR-119, ENGR-129, OH-200 and OH-201 combined: maximum credit, one course.
English as a Second Language	ESL-122 maximum credit, 3 units

Exercise Science	Maximum of four units of credit for Physical Activity courses.
Math	Credit only for MATH-120 (3 units) or MATH-125 and MATH-126 combined (6 units).
	STAT-C1000 and PSY-215 combined: maximum credit, one course.
	MATH-175 and MATH-176 combined: maximum credit, 5 semester/7.5 quarter units.
	MATH-178 and MATH-C2210 combined: maximum credit, one course.
Ornamental Horticulture	All CADD courses, ENGR-119, ENGR-129, OH-200 and OH-201 combined: maximum credit, one course.
Physics	No credit for PHYC-110 if taken after PHYC-130 or PHYC-201.
	PHYC-130 and PHYC-131 or PHYC-201, PHYC-202, PHYC-203 combined: maximum credit, one series.
Psychology	PSY-215 and STAT-C1000 combined: maximum credit, one course.

The California State University

As with the University of California, the California system of state universities is a member of the higher education family. Its many campuses provide upper division educational programs for graduates or transfers from over 100 California public community colleges.

Cuyamaca College students wishing to transfer to a California State University may choose from the following campuses:

Bakersfield
Channel Islands
Chico
Dominguez Hills
East Bay
Fresno
Fullerton
Humboldt
Long Beach
Los Angeles
Maritime
Monterey Bay
Northridge
Pomona
Sacramento
San Bernardino
San Diego
San Francisco
San Jose
San Luis Obispo
San Marcos
Sonoma
Stanislaus

A student is eligible for admission to the California State University with 60 transferable semester units (84 quarter units) if the student:

- Has a college grade point average of 2.0 or better (2.4 for non-California residents) in all transferable college units attempted.
- Is in good standing at the last college or university attended.
- Has completed or will complete at a California community college prior to transfer at least 30 semester units (45 quarter units) of courses equivalent to general education requirements with a grade of "C" or better. The 30 units must include all of the general education requirements in communication in the English language (English composition, oral communication and critical thinking) and at least one course of at least 3 semester units (4 quarter units) required in college level mathematics.

Impacted campuses may have stricter requirements; see a counselor.

All California State University campuses are on a "Common Admissions Program." Applications are available online at Cal State Apply (https://www.calstate.edu/apply).

CSU Transfer Success Pathway (TSP)

Students attending Cuyamaca College could be eligible for a dual admission program called CSU TSP. The program is designed for freshman and *guarantees admission* to one of the 23 CSU campuses to pursue a bachelor's degree. Please refer to CSU Transfer Success Pathway (TSP) (https://www.cuyamaca.edu/student-support/transfer-center/csutransfersuccesspathway.php) for more information on the program.

Eligible students can apply to the program in order to:

- Enter into an agreement with the CSU and receive guaranteed admission to the degree program and campus of your choice (if all requirements are met).
- Receive personalized guidance from CSU representatives to create an educational plan that will help you transfer within three years or less.
- Map out your coursework using the CSU Transfer Planner (https://csutransfer.myliaison.com/) portal to ensure you're on track for your degree.

Admissions Requirements

- Complete an online application through CSU Transfer Planner: August 1 to October 31
- Complete a minimum of 60 CSU-transferable semester units (90 quarter units).
- Meet GPA of the major and major preparatory courses
- Meet CSU General Education requirements

SDSU Upper Division Transfer Admission Guarantee (TAG)

Please refer to the SDSU transfer pathways page (https://admissions.sdsu.edu/transfers/transfer-pathways) for more information on the SDSU TAG.

Credit for Prior Learning (CPL)

Credit for prior learning may be earned for District approved courses for students who satisfactorily pass an authorized assessment.

Authorized assessments may include the evaluation of approved external standardized examinations, military service/training, the evaluation of industry recognized credentials, student-created portfolios, and credit by examination. Details may be found in Administrative Procedure (AP) 4235. Students may demonstrate proficiency in a course eligible for Credit for Prior Learning and receive college credit through the approved alternative methods for awarding credit listed below:

- Achievement of a satisfactory score on an Advanced Placement (AP) examination
- Achievement of a satisfactory score on a high level International Baccalaureate (IB) examination
- Achievement of a satisfactory score on the College Level Examination Program (CLEP)
- Evaluation of military service Joint Service Transcripts (JST)
- Achievement of an examination administered by other agencies approved by the College.
- Evaluation of industry recognized credential documentation
- Evaluation of student-created portfolios
- Satisfactory completion of an institutional examination, known as Credit by Examination, administered by the college in lieu of completion of an active course listed in the current college catalog.

Note: See AP/IB/CLEP charts for satisfactory scores.

Determination of Eligibility to Receive Credit for Prior Learning

(with the exception of AP/IB/CLEP – See information under External Exams):

- The student is currently registered in the college and in good standing
- The student must meet with a Counselor to develop an educational plan
- The course is listed in the current college Catalog
- The course has been reviewed by discipline faculty for Credit for Prior Learning, and aligned courses will be awarded equal credit at Grossmont and Cuyamaca Colleges
- The unit value may not be greater than that listed for the course in the catalog
- The student has not enrolled in or completed the same course or an advanced course at any college in the area for which credit is requested (may be waived by department)
- Credits acquired via Credit for Prior Learning are not applicable to unit load requirements such as Financial Aid, Selective Service deferment, and Veteran's or Social Security benefits

Students wishing to receive CPL credit should consult with a counselor. Additionally, credits acquired by examination shall not be counted in determining the 12 semester hours of credit in residence required for an Associate degree. Applicable fees must be paid to the Cashier/Business Office.

External Exams Credit

Examinations may be used for Cal-GETC certification and for placement purposes in Mathematics and English courses. In order to receive credit, students must send official score reports to the Admissions and Records Office. The student's academic transcript will be annotated to designate unit credit awarded by external examinations. The following charts show the examinations, the total units awarded at GCCCD, CSU and UC, the specific area of general education requirements that may be cleared and the equivalent Cuyamaca course(s), if any. If a student receives External Exam credit and then takes the equivalent Cuyamaca College course, the unit credit will be deducted prior to being awarded the AA/AS degree. For exams not on this list, see the Articulation Officer.

Advanced Placement (AP)

As indicated in the chart below, credit is awarded for AP examinations passed with a score of 3 or above. Credit may be applied to specific general education areas and in some cases fulfill major requirements. Elective units are granted for examinations that do not fit into general education areas and/or fulfill major requirements. In the Grossmont-Cuyamaca Community College District, the manner in which credit is awarded mirrors the California State University Credit for External Examinations Policies. Transfer students should check the catalog of the four-year institution to see how AP credits are awarded outside of general education (how credits are applied toward major coursework). To obtain AP score reports visit the College Board website (https://www.collegeboard.org/).

College Level Examination Program (CLEP)

Cuyamaca College awards general education and/or elective credit for CLEP examinations. Passing scores range from 50 and above (see chart). At the discretion of the appropriate instructional department faculty, CLEP may be used to clear major requirements. A student may earn up to a maximum of 18 units of CLEP at Cuyamaca College. CLEP is currently not accepted for Cal-GETC or by the UC System. Students intending to transfer should check with the transferring institution to determine their policy. Students are cautioned that CLEP policies vary among colleges. The CSU has approved the application of CLEP for general education and has a 30-unit overall cap on the acceptance of CLEP credit. To obtain CLEP transcripts, visit the College Board website (https://www.collegeboard.org/).

International Baccalaureate (IB)

Cuyamaca College grants 3-6 units for each International Baccalaureate Higher Level (HL) Subject Examination passed with an appropriate score (see chart). Examinations may be evaluated for specific course credit to satisfy a major requirement or to clear a prerequisite by the appropriate instructional department faculty. Students planning to transfer without a Cal-GETC certification should check the catalog of the four-year institution to see how IB credits are awarded. To request IB transcripts, students may visit the International Baccalaureate website (https://www.ibo.org/).

For the AP, CLEP and IB charts, the following definitions apply:

GCCCD = Grossmont-Cuyamaca Community College District
CC = Cuyamaca College
GC = Grossmont College
CSU = California State University
UC = University of California
Cal-GETC = California General Education Transfer Curriculum

Advanced Placement (AP)

AP Exam	Total Units Awarded	General Education	GCCCD Major Courses Fulfilled
2-D Art and Design[4]	GCCCD: 3 CSU: 3 UC: 5.3	CC: 3, Area 3 Cal-GETC: N/A	ART 120
3-D Art and Design[4]	GCCCD: 3 CSU: 3 UC: 5.3	CC: 3, Area 3 Cal-GETC: N/A	ART 129

African American Studies	GCCCD: 3 CSU: 3 UC: 2.6	CC: N/A Cal-GETC: N/A	N/A
Art History	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3A or 3B	ARTH C1100, C1200
Biology	GCCCD: 6 CSU: 6 UC: 5.3	CC: 4, Area 5 - w/ lab Cal-GETC: 4, Area 5B and 5C	BIOL C1000
Business with Personal Finance	GCCCD: 3 CSU: 3 UC: 0	CC: N/A Cal-GETC: N/A	N/A
Calculus AB[2,4]	GCCCD: 3 CSU: 3 UC: 2.6	CC: 3, Area 2 Cal-GETC: 3, Area 2	MATH C2210
Calculus BC[2,4]	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 2 Cal-GETC: 3, Area 2	MATH C2210 (Score of 3) MATH C2210, C2220 (Score of 4 or 5)
Calculus BC/AB Subscore[2,4]	GCCCD: 3 CSU: 3 UC: 2.6	CC: 3, Area 2 Cal-GETC: 3, Area 2	MATH C2210
Chemistry	GCCCD: 6 CSU: 6 UC: 5.3	CC: 4, Area 5 - w/ lab Cal-GETC: 4, Area 5A and 5C	CHEM 120 (Score of 3) CHEM 141 (Score of 4 or 5)
Chinese Language & Culture	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B	N/A
Comparative Government & Politics	GCCCD: 3 CSU: 3 UC: 2.6	CC: 3, Area 4 Cal-GETC: 3, Area 4	POSC 124
Computer Science A[2]	GCCCD: 3 CSU: 3 UC: 5.3	CC: N/A Cal-GETC: N/A	CC: CS 182 GC: CSIS 293
Computer Science Principles[2]	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 2 CSU only[1]: 3, Area 2 Cal-GETC: N/A	N/A
Drawing[4]	GCCCD: 3 CSU: 3 UC: 5.3	CC: 3, Area 3 Cal-GETC: N/A	ART 124
English Language & Composition[4]	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 1A Cal-GETC: 3, Area 1A	ENGL C1000 or ESL 122
English Literature & Composition[4]	GCCCD: 6 CSU: 6 UC: 5.3	CC: 6, Area 1A and 3 CSU only[1]: 6, Area 1A and 3B Cal-GETC: 3, Area 1A or 3B	ENGL C1002, ENGL C1000 or ESL 122
Environmental Science	GCCCD: 4 CSU: 4 UC: 2.6	CC: 4, Area 5 - w/ lab Cal-GETC[5]: 3, Area 5A and 5C	N/A
European History	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 or 4 Cal-GETC: 3, Area 3B or 4	HIST 105 or 106
French Language & Culture	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B	GC: FREN 120, 121
German Language and Culture	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B	GC: GERM 120, 121
Human Geography	GCCCD: 3 CSU: 3 UC: 2.6	CC: 3, Area 4 Cal-GETC: 3, Area 4	GEOG 130
Italian Language & Culture	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B	N/A
Japanese Language & Culture	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B	GC: JAPN 120, 121
Latin	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B	N/A
Macroeconomics	GCCCD: 3 CSU: 3 UC: 2.6	CC: 3, Area 4 Cal-GETC: 3, Area 4	ECON C2002
Microeconomics	GCCCD:3 CSU: 3 UC: 2.6	CC: 3, Area 4 Cal-GETC: 3, Area 4	ECON C2001
Music Theory	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: N/A	MUS 105 or 106
Physics 1: Algebra-Based[3,4]	GCCCD: 4 CSU: 4 UC: 5.3	CC: 4, Area 5 - w/ lab Cal-GETC: 4, Area 5A and 5C	PHYC 110
Physics 2: Algebra-Based[3,4]	GCCCD: 4 CSU: 4 UC: 5.3	CC: 4, Area 5 - w/ lab Cal-GETC: 4, Area 5A and 5C	PHYC 110
Physics C: Electricity & Magnetism[3,4]	GCCCD: 4 CSU: 4 UC: 2.6	CC: 4, Area 5 – w/ lab Cal-GETC[5]: 3, Area 5A and 5C	PHYC 202
Physics C: Mechanics[3,4]	GCCCD: 4 CSU: 4 UC: 2.6	CC: 4, Area 5 – w/ lab Cal-GETC[5]: 3, Area 5A and 5C	PHYC 201
PreCalculus	GCCCD: 3 CSU: 3 UC: 0	CC: 3, Area 2 CSU only[1]: 3, Area 2 Cal-GETC: N/A	MATH 170, 175 OR MATH 176
Psychology	GCCCD: 3 CSU: 3 UC: 2.6	CC: 3, Area 4 Cal-GETC: 3, Area 4	PSYC C1000
Research	GCCCD: 3 CSU: 3 UC: 0	CC: N/A Cal-GETC: N/A	N/A

Seminar	GCCCD: 3 CSU: 3 UC: 0	CC: N/A Cal-GETC: N/A	N/A
Spanish Language & Culture	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B	SPAN 120, 121
Spanish Literature & Culture	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B	N/A
Statistics	GCCCD: 3 CSU: 3 UC: 2.6	CC: 3, Area 2 Cal-GETC: 3, Area 2	STAT C1000
US Government & Politics	GCCCD: 3 CSU: 3 UC: 2.6	CC: 3, Area 4 CSU AI: US-2 Cal-GETC: 3, Area 4	POLS C1000
US History	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 or 4 CSU AI: US-1 Cal-GETC: 3, Area 3B or 4	HIST C1001 or C1002
World History Modern	GCCCD: 3 CSU: 3 UC: 5.3	CC: 3, Area 3 or 4 Cal-GETC: 3, Area 3B or 4	HIST 100 or 101

Questions regarding the Advanced Placement (AP) examination chart can be directed to counselors. Please note that information identified by “CC” is specific to Cuyamaca College. For examinations not on this list see the Articulation Officer. Transfer students should check the catalog of the four-year institution to see how AP credits are awarded outside of general education (how credits are applied toward major coursework).

[1] The CSU system may accept some exams in a different manner than Cal-GETC for admissions purposes. These differences are noted in the chart above as "CSU only".

[2] If a student passes more than one AP examination in Calculus or Computer Science, only one examination may be applied to the baccalaureate.

[3] If a student passes more than one AP examination in Physics, only six units of credit may be applied to the baccalaureate and only four units of credit may be applied to a certification in General Education Breadth.

[4] The UC has placed a maximum credit limitation of 5.3 units when a student passes more than one AP examination in these areas: English, Calculus, Physics, and Studio Arts.

[5] AP exams in Environmental Science, Physics C: Mechanics and Physics C: Electricity/Magnetism may only be certified for 3 semester units in Cal-GETC.

References: CSU Systemwide Credit for External Examinations *(*https://calstate.policystat.com/policy/20781575/latest/?showchanges=true*), June 25, 2026;* UC AP & Exam Credits *(*https://admission.universityofcalifornia.edu/admission-requirements/ap-exam-credits/*), 2026;* Cal-GETC Standards Version 1.4 *(*https://icas-ca.org/cal-getc-standards/*), 2026*

College Level Examination Program (CLEP)

CLEP Examination	Approved Score	Total Units Awarded	General Education
American Government	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 4 CSU only: 3, Area 4 Cal-GETC: N/A
American Literature	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 3 CSU only: 3, Area 3B Cal-GETC: N/A
Analyzing and Interpreting Literature	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 3 CSU only: 3, Area 3B Cal-GETC: N/A
Biology	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 5 - no lab CSU only: 3, Area 5B Cal-GETC: N/A
Calculus	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 2 CSU only: 3, Area 2 Cal-GETC: N/A
Chemistry	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 5 - no lab CSU only: 3, Area 5A Cal-GETC: N/A
College Algebra	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 2 CSU only: 3, Area 2 Cal-GETC: N/A
College Algebra-Trigonometry	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3 units, Area 2 CSU only: 3 units, Area 2 Cal-GETC: N/A
College Composition	50	GCCCD: 0 CSU: 0 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
College Composition - Modular	50	GCCCD: 0 CSU: 0 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
College Mathematics	50	GCCCD: 0 CSU: 0 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
English Composition (without essay)	50	GCCCD: 0 CSU: 0 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
English Composition (with essay)	50	GCCCD: 0 CSU: 0 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
Financial Accounting	50	GCCCD: 3 CSU: 3 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A

French Level I	50	GCCCD: 6 CSU: 6 UC: N/A	GC: N/A CSU only: N/A Cal-GETC: N/A
French Level II	59	GCCCD: 9 CSU: 9 UC: N/A	CC: 5, Area 3B CSU only: 3, Area 3B Cal-GETC: N/A
Freshman College Composition	50	GCCCD: 0 CSU: 0 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
German Level I	50	GCCCD: 6 CSU: 6 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
German Level II	60	GCCCD: 9 CSU: 9 UC: N/A	CC: 5, Area 3 CSU only: 3, Area 3B Cal-GETC: N/A
History: US I	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 4 CSU only: 3, Area 4, AI US-1 Cal-GETC: N/A
History: US II	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 4 CSU only: 3, Area 4, AI US-1 Cal-GETC: N/A
Human Growth and Development	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 7A CSU only: N/A Cal-GETC: N/A
Humanities	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 3 CSU only: 3, Area 3B Cal-GETC: N/A
Information Systems and Computer Applications	50	GCCCD: 3 CSU: 3 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
Introduction to Educational Psychology	50	GCCCD: 3 CSU: 3 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
Introductory Business Law	50	GCCCD: 3 CSU: 3 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
Introductory Psychology	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 4 CSU only: 3, Area 4 Cal-GETC: N/A
Introductory Sociology	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 4 CSU only: 3, Area 4 Cal-GETC: N/A
Natural Sciences	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 5 - no lab CSU only: 3, Area 5A or 5B Cal-GETC: N/A
Precalculus	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 2 CSU only: 3, Area 2 Cal-GETC: N/A
Principles of Accounting	50	GCCCD: 3 CSU: 3 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
Principles of Macroeconomics	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 4 CSU only: 3, Area 4 Cal-GETC: N/A
Principles of Management	50	GCCCD: 3 CSU: 3 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
Principles of Marketing	50	GCCCD: 3 CSU: 3 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
Principles of Microeconomics	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 4 CSU only: 3, Area 4 Cal-GETC: N/A
Social Sciences and History	50	GCCCD: 0 CSU: 0 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
Spanish Level I	50	GCCCD: 6 CSU: 6 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
Spanish Level II	63	GCCCD: 9 CSU: 9 UC: N/A	CC: 5, Area 3 CSU only: 3, Area 3B Cal-GETC: N/A
Spanish with Writing I	50	GCCCD: 6 CSU: 6 UC: N/A	CC: N/A CSU only: N/A Cal-GETC: N/A
Spanish with Writing II	63	GCCCD: 9 CSU: 9 UC: N/A	CC: 3, Area 3 CSU only: 3, Area 3B Cal-GETC: N/A
Western Civilization I	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 3 or 4 CSU only: 3, Area 3B or 4 Cal-GETC: N/A
Western Civilization II	50	GCCCD: 3 CSU: 3 UC: N/A	CC: 3, Area 4 CSU only: 3, Area 4 Cal-GETC: N/A

Questions regarding the CLEP chart can be directed to counselors. Please note that information identified as “CC” is specific to Cuyamaca College. For examinations not on this list see the Articulation Officer.

Notes/ Credit Limitations:

- CLEP is not accepted for Cal-GETC certification. Students transferring to the CSU may use CLEP exams to satisfy CSU general education areas as noted in the chart, however, they will not be used towards certification of general education upon transfer.
- If a student passes more than one CLEP test in the same language other than English, then only one examination may be applied to the baccalaureate.
- At the discretion of discipline faculty, CLEP may be used to clear major requirements. A Modification of Major form must be submitted to the appropriate department chair for approval.

References: CSU Systemwide Credit for External Examinations *(*https://calstate.policystat.com/policy/20781575/latest/?showchanges=true*), June 25, 2026;* UC AP & Exam Credits *(*https://admission.universityofcalifornia.edu/admission-requirements/ap-exam-credits/*) 2026;* Cal-GETC Standards Version 1.4 *(*https://icas-ca.org/cal-getc-standards/*), 2026*

International Baccalaureate (IB)

IB Exam	Approved Score	Total Units Awarded	General Education
Biology HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 5 - no lab Cal-GETC: 3, Area 5B
Business Management HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: N/A Cal-GETC: N/A
Chemistry HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 5 - no lab Cal-GETC: 3, Area 5A
Computer Science HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: N/A Cal-GETC: N/A
Dance HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: N/A Cal-GETC: N/A
Design Technology HL	GCCCD: 5 CSU: 5 UC: N/A	GCCCD: 6 CSU: 6 UC: 0	CC: N/A Cal-GETC: N/A
Digital Society HL	GCCCD: 5 CSU: 5 UC: N/A	GCCCD: 6 CSU: 6 UC: 0	CC: N/A Cal-GETC: N/A
Economics HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 4 Cal-GETC: 3, Area 4
Environmental Systems and Societies HL	GCCCD: 5 CSU: 5 UC: N/A	GCCCD: 6 CSU: 6 UC: 0	CC: N/A Cal-GETC: N/A
Film HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: N/A Cal-GETC: N/A
Geography HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 4 Cal-GETC: 3, Area 4
Global Politics HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 3 CSU: 3 UC: 5.3	CC: 3, Area 4 CSU only[4]: 3, Area 4 Cal-GETC: N/A
History HL (any region)	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 or 4 Cal-GETC: 3, Area 3B or 4
Language A Literature HL[1] (any language)	GCCCD: 4 CSU: 4 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B[2]
Language A Language and Literature HL[1] (any language)	GCCCD: 4 CSU: 4 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B[2]
Language A Literature HL (any language, except English)	GCCCD: 4 CSU: 4 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B[2] UC LOTE
Language A Language and Literature HL (any language, except English)	GCCCD: 4 CSU: 4 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3B[2] UC LOTE
Language B HL (any language)	GCCCD: 4 CSU: 4 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: N/A Cal-GETC: N/A
Mathematics HL: Analysis and Approaches	GCCCD: 4 CSU: 4 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 2 Cal-GETC: 3, Area 2[2]
Mathematics HL: Applications and Interpretation[3]	GCCCD: 4 CSU: 4 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 2 Cal-GETC: 3, Area 2[2,3]
Music HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: N/A Cal-GETC: N/A
Philosophy HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 CSU only[4]: 3, Area 3B Cal-GETC: N/A
Physics HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 5 - no lab Cal-GETC: 3, Area 5A
Psychology HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 3 CSU: 3 UC: 5.3	CC: 3, Area 4 Cal-GETC: 3, Area 4
Social and Cultural Anthropology HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 4 CSU only[4]: 3, Area 4 Cal-GETC: N/A
Sports, Exercise, and Health Science HL	GCCCD: 5 CSU: 5 UC: N/A	GCCCD: 6 CSU: 6 UC: 0	CC: N/A Cal-GETC: N/A
Theater HL	GCCCD: 4 CSU: 4 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: 3, Area 3 Cal-GETC: 3, Area 3A[2]
Visual Arts HL	GCCCD: 5 CSU: 5 UC: 5	GCCCD: 6 CSU: 6 UC: 5.3	CC: N/A Cal-GETC: N/A
World Religions HL	GCCCD: 5 CSU: 5 UC: N/A	GCCCD: 6 CSU: 6 UC: 0	CC: 3, Area 3 CSU only[4]: 3, Area 3B Cal-GETC: N/A

[1] Please note that SDSU uses Language A HL (English) to satisfy RWS 100 and ECL 299, see SDSU catalog "Academic Credit Through Examination" policies for more information.

[2] Score must be 5 for Cal-GETC certification.

[3] No UC credit is awarded for the Mathematics Applications and Interpretations exam offered 2021 and later.
[4] The CSU system may accept some exams in a different manner than Cal-GETC for admissions purposes. These differences are noted in the chart above as "CSU only".

Questions regarding the International Baccalaureate (IB) examination chart can be directed to counselors. Please note that information identified by "CC" is specific to Cuyamaca College. For examinations not on this list see the Articulation Officer.

References: CSU Systemwide Credit for External Examinations *(*https://calstate.policystat.com/policy/20781575/latest/?showchanges=true*), June 25, 2026;* UC AP & Exam Credits *(*https://admission.universityofcalifornia.edu/admission-requirements/ap-exam-credits/*) 2026;* Cal-GETC Standards Version 1.4 *(*https://icas-ca.org/cal-getc-standards/*), 2026*

Independent California Colleges and Universities

California's fully accredited independent colleges and universities provide a host of options for students planning to continue their education beyond community college.

Students who transfer to independent colleges or universities find they are given academic credit for most, if not all, of their community college studies. Virtually all institutions give full credit for general education courses and usually for other courses designated for transfer by the community college.

Requirements for independent colleges are outlined in the respective college catalogs, available upon request from the Counseling Center or Transfer Center. The Transfer Center's website contains information on transfer agreements, transfer guides and articulation agreements to private and independent institutions.

Course Identification Numbering System (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID designation at another community college. However, students should always go to www.assist.org to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

C-ID Numbers Approved

Cuyamaca Course	C-ID #
ANTH-C1001	ANTH 110
ANTH-120	ANTH 120
ANTH-140	ANTH 150
ARTH-C1100	ARTH 110
ARTH-C1200	ARTH 120
ART-100	ARTH 100
ART-120	ARTS 100
ART-121	ARTS 210
ART-124	ARTS 110
ART-125	ARTS 205
ART-129	ARTS 101
ART-142	ARTH 140
ART-143	ARTH 150
ART-146	ARTH 130
ART-230	ARTS 200
BIO-140	BIOL 110B
BIO-141, BIO-141L	BIOL 120B
BIO-230	BIOL 190
BIO-240	BIOL 140
BIO-230, BIO-240	BIOL 135S
BUS-110	BUS 110
BUS-120	ACCT 110
BUS-121	ACCT 120
BUS-125	BUS 120, BUS 125
BUS-128	BUS 115
CDEV-C1000	CDEV 100
CD-123	ECE 120
CD-130	ECE 130
CD-131	CDEV 110
CD-134	ECE 220
CD-153	ECE 230
CD-212	ECE 210
CD-213	ECE 200
CHEM-141	CHEM 110
CHEM-141, CHEM-142	CHEM 120S
CHEM-231	CHEM 150
CHEM-231, CHEM-232	CHEM 160S
CIS-110	BUS 140, ITIS 120
CIS-125	ITIS 150
CIS-202	ITIS 151
CIS-263	ITIS 160
COMM-C1000	COMM 110
COMM-C1004	COMM 130
COMM-110	JOUR 100
COMM-124	COMM 150
COMM-137	COMM 140
COMM-145	COMM 120
CS-119, CS-119L	COMP 112
CS-165	COMP 142
CS-181	COMP 122

CS-182	COMP 122
CS-240	COMP 152
CS-281	COMP 132
CS-282	COMP 132
ECON-C2001	ECON 201
ECON-C2002	ECON 202
ED-200	EDUC 200
ENGL-C1000	ENGL 100
ENGL-C1001	ENGL 105
ENGL-C1002	ENGL 120
ENGL-126	ENGL 200
ENGL-221	ENGL 160
ENGL-222	ENGL 165
ENGL-231	ENGL 130
ENGL-232	ENGL 135
ENGL-271	ENGL 145
ENGR-100	ENGR 110
ENGR-220	ENGR 230
ES-250	KIN 100
ESL-122	ENGL 100
ETHN-114	SOCI 150
GD-110	ARTS 250
GEOG-106	GEOG 125
GEOG-120	GEOG 110
GEOG-121	GEOG 111, GEOL 120L
GEOG-122	GEOG 160
GEOG-130	GEOG 120
GEOL-104	GEOL 120
GEOL-110	GEOL 100
GEOL-111	GEOL 100L
HED-120	PH 100
HED-201	PH 101
HED-202	PH 105
HED-203	PH 103
HED-204	PH 102
HIST-C1001	HIST 130
HIST-C1002	HIST 140
HIST-100	HIST 150
HIST-101	HIST 160
HIST-105	HIST 170
HIST-106	HIST 180
MATH-C2210	MATH 210
MATH-C2220	MATH 220
MATH-C2210, MATH-C2220	MATH 900S
MATH-125	MATH 120
MATH-175	MATH 151
MATH-178	MATH 140
MATH-245	MATH 160
MATH-281	MATH 230
MATH-284	MATH 250
MATH-285	MATH 240
MATH-284, MATH-285	MATH 910S
MUS-001	MUS 110
MUS-105	MUS 120, MUS 125
MUS-106	MUS 130, MUS 135
MUS-110	MUS 100
MUS-132	MUS 170
MUS-133	MUS 171
MUS-152	MUS 180
MUS-153	MUS 180
MUS-156	MUS 180
MUS-157	MUS 180
MUS-158	MUS 180
MUS-159	MUS 180
MUS-190	MUS 160
MUS-191	MUS 160
MUS-205	MUS 140, MUS 145
MUS-206	MUS 150, MUS 155
MUS-232	MUS 172
MUS-252	MUS 180
MUS-253	MUS 180
MUS-258	MUS 180
MUS-259	MUS 180
MUS-290	MUS 160
MUS-291	MUS 160
NUTR-255	NUTR 110
OH-121	AG-EH 116L
OH-130	AG-EH 120X
OH-220	AG-EH 132X
PHIL-110	PHIL 100
PHIL-115	PHIL 130
PHIL-130	PHIL 110
PHIL-140	PHIL 120
PHYC-130	PHYS 105
PHYC-131	PHYS 110
PHYC-130, PHYC-131	PHYS 100S
PHYC-201	PHYS 205
PHYC-202	PHYS 210
PHYC-203	PHYS 215
PHYC-201, PHYC-202, PHYC-203	PHYS 200S
POLS-C1000	POLS 110
POSC-120	POLS 150
POSC-124	POLS 130
POSC-130	POLS 140
POSC-150	POLS 120
POSC-165	POLS-170
POSC-170	POLS 160
PSYC-C1000	PSY 110
PSY-134	PSY 130
PSY-138	PSY 170
PSY-140	PSY 150
PSY-150	PSY 180
PSY-170	PSY 120
PSY-205	PSY 200, PSY 205B

PSY-215	SOCI 125
SOCI-C1000	SOCI 110
SOC-114	SOCI 150
SOC-125	SOCI 130
SOC-130	SOCI 115
SOC-138	PSY 170
SOC-140	SOCI 140
SPAN-120	SPAN 100
SPAN-121	SPAN 110
SPAN-220	SPAN 200
SPAN-221	SPAN 210
STAT-C1000	MATH 110
THTR-110	THTR 111

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- Preschool Children Associate in Science and Certificate of Achievement (p. 83)
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- Wastewater Treatment Operations, Advanced Wastewater Treatment Operations Certificate of Specialization (p. 143)
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- Water Distribution Operations Associate in Science and Certificate of Achievement (p. 139)
- Water Distribution Operations Certificate of Specialization (p. 144)
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- Water Distribution Operations, Water & Wastewater Fundamentals Certificate of Specialization (p. 144)
- Water Resources Management Associate in Science and Certificate of Achievement (p. 140)
- Water Treatment Plant Operations Associate in Science and Certificate of Achievement (p. 141)
- Water Treatment Plant Operations Certificate of Specialization (p. 145)
- Water Treatment Plant Operations, Advanced Water Treatment Plant Operations Certificate of Specialization (p. 146)
- Water Treatment Plant Operations, Water & Wastewater Fundamentals Certificate of Specialization (p. 145)
- Web Design Certificate of Specialization (p. 151)
- Web Development Associate in Science and Certificate of Achievement (p. 149)
- Web Graphics Certificate of Specialization (p. 200)
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- Yoga Instructor 200 Hour Certificate of Specialization (p. 171)

Behavioral & Social Sciences



- Anthropology for Transfer (AA-T) (p. 80)
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Associate Degree for Transfer℠

Anthropology for Transfer (AA-T)



The AA-T in Anthropology for Transfer guides students in their quest to understand what it means to be human, and how humans make meaning in life. Students take courses from three subfields: archaeology, cultural anthropology and physical anthropology, and learn about human cultures and civilizations, past and present. The AA-T in Anthropology for Transfer is designed specifically to prepare students for transfer to a California State University, where a baccalaureate degree may be earned in Anthropology or a closely related field.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; see Degree Requirements and Transfer Information (p. 57) section for more information.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate an understanding of the core concepts of archaeology, cultural anthropology and physical anthropology;
2. Demonstrate knowledge of cultural variation and diversity of perspectives, practices and beliefs found within and across cultures;
3. Understand long term changes in the conditions that have shaped humans and the environments they inhabit.

Associate in Arts for Transfer Degree Requirements

Code	Title	Units
Required Core		
ANTH-C1001	Introduction to Biological Anthropology	3
ANTH-120	Cultural Anthropology	3
ANTH-140	Introduction to Archaeology	3
List A		
Select one of the following:		4
PSY-215	Statistics for the Behavioral Sciences	
STAT-C1000	Introduction to Statistics	
List B		
Select one or two of the following:		4
BIO-140	Human Anatomy	
PSY-205	Research Methods in Psychology	
GEOL-110 & GEOL-111	Planet Earth and Planet Earth Laboratory [1]	
GEOL-104 & GEOG-121	Earth Science and Physical Geography: Earth Systems Laboratory [2]	
List C		
Select one of the following:		
MUS-116	Introduction to World Music	3
or RELG-120	World Religions	
Units for the Major		**20**
Double-Counted Units		12-16
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Electives		18-22
Total Units		**60**

[1] Must be taken if GEOL-110 Planet Earth is selected.
[2] Must be taken if GEOL-104 Earth Science is selected.

Child Development



- Child and Adolescent Development for Transfer (AA-T) (p. 81)
- Early Childhood Education for Transfer (AS-T) (p. 81)
- Infants and Toddlers Associate in Science and Certificate of Achievement (p. 82)
- Preschool Children Associate in Science and Certificate of Achievement (p. 83)
- Administration Certificate of Specialization (p. 84)
- Early Childhood Intervention Certificate of Specialization (p. 85)

Associate Degree for Transfer℠

Child and Adolescent Development for Transfer (AA-T)

The Associate in Arts in Child and Adolescent Development for Transfer is designed to provide students with the lower division coursework needed to transfer to a California State University for a bachelor's degree in Child Development or Child and Adolescent Development or a closely related field.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Integrate the key developmental concepts and teaching strategies into a cogently articulated philosophy of child and adolescent education and care.
2. Employ curriculum that is well planned, developmentally appropriate and based on the interests and needs of children and adolescents.
3. Implement effective guidance strategies with children and adolescents.
4. Demonstrate the ability to plan programs for children and adolescent which enhance their physical, intellectual, emotion and social development.

Associate in Arts for Transfer Degree Requirements

Code	Title	Units
Required Core		
CDEV-C1000	Child Growth and Development	3
PSYC-C1000	Introduction to Psychology	3
STAT-C1000	Introduction to Statistics	4
List A		
Select nine units from the following:		9
BIOL-C1001	Introduction to Biology	
CD-130	Curriculum: Design and Implementation	
CD-131	Child, Family and Community	
CD-213	Observation and Assessment	
Units for the Major		**19**
Double-Counted Units		9-12
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		16-19
Total Units		**60**

Associate Degree for Transfer℠

Early Childhood Education for Transfer (AS-T)

The AS-T in Early Childhood Education is designed to prepare students planning to transfer to a California State University for a bachelor's degree in Child Development or Early Childhood Education by providing lower division course preparation. This degree facilitates a clearly defined career pathway for students wishing to pursue a career in early childhood development and care.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Integrate the key developmental concepts and teaching strategies into a cogently articulated philosophy of early childhood education and care, which is sensitive to diversity, equity and inclusion, with an emphasis on developmentally appropriate practice, based on the interests and needs of children.
2. Employ appropriate classroom organizational and management techniques in a variety of early childhood education settings, demonstrating the ability to create curricula resources, while implementing a curriculum based on the needs of the whole child which supports the usage of effective and sensitive discipline and guidance strategies directly with children.
3. Assess their own professional competence and progress and develop a plan for professional career steps and growth with consideration of all potential career opportunities.

Associate in Science Degree Requirements

Code	Title	Units
CDEV-C1000	Child Growth and Development	3
CD-123	Principles and Practices of Programs and Curriculum for Young Children	3
CD-130	Curriculum: Design and Implementation	3
CD-131	Child, Family and Community	3
CD-134	Health, Safety and Nutrition of Young Children	3
CD-153	Teaching in a Diverse Society	3
CD-212	Practicum in Early Childhood Education	3
CD-213	Observation and Assessment	3
Units for the Major		**24**
Double-Counted Units		3
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		5
Total Units		**60**

Infants and Toddlers Associate in Science and Certificate of Achievement

Child Development

The Child Development curriculum is designed to prepare students for employment as teachers, directors and aides in preschools and child care centers, including infant/toddler and extended day facilities. The curriculum is also appropriate for parents, administrators, health care professionals, and others working with children. Course work meets the educational components of the Department of Social Services license regulations for child care programs. The degree meets the Title 5 Department of Education educational requirements of the Assistant, Associate, Teacher, Master Teacher and Site Supervisor Child Development Permits. The curriculum meets lower division course preparation for students planning to obtain a bachelor's degree in Child Development at most CSU campuses.

The Department of Social Services Title 22 minimum requirements to be a preschool teacher are 12 units in Child Development which must include: CDEV-C1000 Child Growth and Development, CD-131 Child, Family and Community, one curriculum class (CD-123 Principles and Practices of Programs and Curriculum for Young Children, CD-126 Art for Child Development, CD-127 Science and Mathematics for Child Development CD-128 Music and Movement for Child Development, CD-129 Language and Literature for Child Development or CD-130 Curriculum: Design and Implementation), and one additional CD course (3 units).

The California Department of Education Title 5 minimum education requirements at the Teacher level on the Child Development Matrix are 24 units in Child Development which must include: CDEV-C1000 Child Growth and Development, CD-131 Child, Family and Community, one curriculum class (CD-123 Principles and Practices of Programs and Curriculum for Young Children, CD-126 Art for Child Development, CD-127 Science and Mathematics for Child Development, CD-128 Music and Movement for Child Development, CD-129 Language and Literature for Child Development or CD-130 Curriculum: Design and Implementation), 12 additional units in CD, and 16 units of general education which must include one degree applicable course in each of four general education categories: English/Language Arts; Math or Science; Social Sciences; Humanities and/or Fine Arts.

The California Community Colleges' Curriculum Alignment Project (CAP) consolidates and clarifies the transfer requirements for teachers of young children in the state of California. The eight CAP courses, CD-123 Principles and Practices of Programs and Curriculum for Young Children, CDEV-C1000 Child Growth and Development, CD-130 Curriculum: Design and Implementation, CD-131 Child, Family and Community, CD-134 Health, Safety and Nutrition of Young Children, CD-153 Teaching in a Diverse Society, CD-212 Practicum in Early Childhood Education and CD-213 Observation and Assessment, provide a strong foundation for transfer to four-year programs in Child Development of Early Childhood Education.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Integrate the key developmental concepts and teaching strategies into a cogently articulated philosophy of early childhood education and care.
2. Employ appropriate classroom organizational and management techniques in a variety of early childhood education settings, including the implementation of curriculum that is well planned, developmentally appropriate, and based on the interests and needs of the children.
3. Survey, assemble, and expand curricula resources for use in specific early childhood classrooms and centers.
4. Apply and implement effective and sensitive discipline and guidance strategies directly with children.
5. Clearly demonstrate the ability to plan child development programs which deliberately intend to advance, stimulate or otherwise enhance children's physical, intellectual, emotional and social development in ways which are appropriate to the children's developmental level.
6. Assess their own professional competence and progress and develop a plan for professional career steps and growth.

Career Opportunities

Adoption Counselor[1]
Camping Guide
Child Care Specialist
Child Psychologist[1]
Curriculum Development
Development Specialist (Child, Adolescent and Family)[1]
Early Intervention Aide[1]
Educational Consultant[1]
Infant/Toddler Teacher
Outdoor Education Specialist
Preschool Director
Preschool Teacher
Recreation Leader
Recreation Specialist[1]
School Age Child Care Teacher
Social Service Specialist[1]

Special Education Assistant – Children with Special Needs

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
CD-106	Practicum: Beginning Observation and Experience	1
CD-123	Principles and Practices of Programs and Curriculum for Young Children	3
CDEV-C1000	Child Growth and Development	3
CD-126	Art for Child Development	3
CD-127	Science and Mathematics for Child Development	3
CD-128	Music and Movement for Child Development	3
CD-129	Language and Literature for Child Development	3
CD-131	Child, Family and Community	3
CD-134	Health, Safety and Nutrition of Young Children	3
CD-141	Working with Children with Special Needs	3
or CD-210	Working with Young Children with Challenging Behaviors	
CD-153	Teaching in a Diverse Society	3
Total Units		**31**

Area of Emphasis: Infants and Toddlers

Code	Title	Units
Core Curriculum		31
CD-124	Infant and Toddler Development	3
CD-132	Observation and Assessment: Field Experience Seminar	3
CD-143	Responsive Planning for Infant/Toddler Care	3
CD-170	Practicum: Field Experience with Infants and Toddlers	2
Total Units		**42**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the courses required for the major including an area of emphasis qualify for a Certificate in Child Development in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Preschool Children Associate in Science and Certificate of Achievement



Child Development

The Child Development curriculum is designed to prepare students for employment as teachers, directors and aides in preschools and child care centers, including infant/toddler and extended day facilities. The curriculum is also appropriate for parents, administrators, health care professionals, and others working with children. Course work meets the educational components of the Department of Social Services license regulations for child care programs. The degree meets the Title 5 Department of Education educational requirements of the Assistant, Associate, Teacher, Master Teacher and Site Supervisor Child Development Permits. The curriculum meets lower division course preparation for students planning to obtain a bachelor's degree in Child Development at most CSU campuses.

The Department of Social Services Title 22 minimum requirements to be a preschool teacher are 12 units in Child Development which must include: CDEV-C1000 Child Growth and Development, CD-131 Child, Family and Community, one curriculum class (CD-123 Principles and Practices of Programs and Curriculum for Young Children, CD-126 Art for Child Development, CD-127 Science and Mathematics for Child Development CD-128 Music and Movement for Child Development, CD-129 Language and Literature for Child Development or CD-130 Curriculum: Design and Implementation), and one additional CD course (3 units).

The California Department of Education Title 5 minimum education requirements at the Teacher level on the Child Development Matrix are 24 units in Child Development which must include: CDEV-C1000 Child Growth and Development, CD-131 Child, Family and Community, one curriculum class (CD-123 Principles and Practices of Programs and Curriculum for Young Children, CD-126 Art for Child Development, CD-127 Science and Mathematics for Child Development, CD-128 Music and Movement for Child Development, CD-129 Language and Literature for Child Development or CD-130 Curriculum: Design and Implementation), 12 additional units in CD, and 16 units of general education which must include one degree applicable course in each of four general education categories: English/Language Arts; Math or Science; Social Sciences; Humanities and/or Fine Arts.

The California Community Colleges' Curriculum Alignment Project (CAP) consolidates and clarifies the transfer requirements for teachers of young children in the state of California. The eight CAP courses, CD-123 Principles and Practices of Programs and Curriculum for Young Children, CDEV-C1000 Child Growth and Development, CD-130 Curriculum: Design and Implementation, CD-131 Child, Family and Community, CD-134 Health, Safety and Nutrition of Young Children, CD-153 Teaching in a Diverse Society, CD-212 Practicum in Early Childhood Education and CD-213 Observation and Assessment, provide a strong foundation for transfer to four-year programs in Child Development of Early Childhood Education.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Integrate the key developmental concepts and teaching strategies into a cogently articulated philosophy of early childhood education and care.
2. Employ appropriate classroom organizational and management techniques in a variety of early childhood education settings, including the implementation of curriculum that is well planned, developmentally appropriate, and based on the interests and needs of the children.
3. Survey, assemble, and expand curricula resources for use in specific early childhood classrooms and centers.
4. Apply and implement effective and sensitive discipline and guidance strategies directly with children.
5. Clearly demonstrate the ability to plan child development programs which deliberately intend to advance, stimulate or otherwise enhance children's physical, intellectual, emotional and social development in ways which are appropriate to the children's developmental level.
6. Assess their own professional competence and progress and develop a plan for professional career steps and growth.

Career Opportunities

Adoption Counselor[1]
Camping Guide
Child Care Specialist
Child Psychologist[1]
Curriculum Development
Development Specialist (Child, Adolescent and Family)[1]
Early Intervention Aide[1]
Educational Consultant[1]
Infant/Toddler Teacher
Outdoor Education Specialist
Preschool Director
Preschool Teacher
Recreation Leader
Recreation Specialist[1]
School Age Child Care Teacher
Social Service Specialist[1]
Special Education Assistant – Children with Special Needs

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
CD-106	Practicum: Beginning Observation and Experience	1
CD-123	Principles and Practices of Programs and Curriculum for Young Children	3
CDEV-C1000	Child Growth and Development	3
CD-126	Art for Child Development	3
CD-127	Science and Mathematics for Child Development	3
CD-128	Music and Movement for Child Development	3
CD-129	Language and Literature for Child Development	3
CD-131	Child, Family and Community	3
CD-134	Health, Safety and Nutrition of Young Children	3
CD-141	Working with Children with Special Needs	3
or CD-210	Working with Young Children with Challenging Behaviors	
CD-153	Teaching in a Diverse Society	3
Total Units		**31**

Area of Emphasis: Preschool Children

Code	Title	Units
Core Curriculum		31
CD-130	Curriculum: Design and Implementation	3
CD-132	Observation and Assessment: Field Experience Seminar	3
CD-133	Practicum-Field Experience: Student Teaching	3
Total Units		**40**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the courses required for the major including an area of emphasis qualify for a Certificate in Child Development in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Administration Certificate of Specialization

This certificate offers specific training for individuals who are seeking a position as the director of a California Title 22 early childhood development program. Students who complete the requirements below qualify for a Certificate in Child Development: Administration. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Develop and manage the budget for a child care or preschool program.
2. Incorporate regulatory laws into planning for a preschool program.
3. Develop and apply school policies and procedures, including those related to personnel and families.

Career Opportunities

Students may find positions as the director or assistant director of early childhood programs licensed by California Title 22 for children from 2-5 years. Students wanting to direct programs that include infants and toddlers from birth-2 years should take a Child Development course

specifically related to infants and toddlers (CD-124 Infant and Toddler Development or CD-143 Responsive Planning for Infant/Toddler Care).

Certificate Requirements

Code	Title	Units
CDEV-C1000	Child Growth and Development	3
CD-131	Child, Family and Community	3
Select one of the following:		3
CD-126	Art for Child Development	
CD-127	Science and Mathematics for Child Development	
CD-128	Music and Movement for Child Development	
CD-129	Language and Literature for Child Development	
Select one of the following:		3
CD-124	Infant and Toddler Development	
CD-136	Adult Supervision	
CD-143	Responsive Planning for Infant/Toddler Care	
Select one of the following:		3
CD-137	Administration of Child Development Programs I	
CD-138	Administration of Child Development Programs II	
Total Units		**15**

Early Childhood Intervention Certificate of Specialization

This certificate prepares students for entry-level positions and greater opportunities for advancement in the early childhood field. It is designed to demonstrate an area of expertise in working with young children with special needs in typical early childhood programs or those specifically designed for young children with special needs.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Observe and document specific behaviors, skills, and interests of young children.
2. Plan and implement schedule, curriculum, and guidance strategies adapted for a young child with special needs.

Career Opportunities

Students may find employment as an inclusion specialist, inclusion aide, or intervention assistant in a wide variety of programs serving young children with special needs. These programs include but are not limited to corporate child care, Head Start, State Preschools, special day classes, intervention programs, home visit programs, community-based programs such as park, recreation and camping programs, and faith-based early childhood programs.

Certificate Requirements

Code	Title	Units
CDEV-C1000	Child Growth and Development	3
CD-134	Health, Safety and Nutrition of Young Children	3
CD-141	Working with Children with Special Needs	3
Select two of the following:		6
CD-126	Art for Child Development [1]	
CD-127	Science and Mathematics for Child Development [1]	
CD-128	Music and Movement for Child Development [1]	
CD-129	Language and Literature for Child Development [1]	
CD-131	Child, Family and Community [1]	
CD-145	Child Abuse and Family Violence in Our Society	
CD-210	Working with Young Children with Challenging Behaviors	
Total Units		**15**

[1] Meets the educational components of the Department of Social Services license regulations for child care programs.

At least 50% of the units required for the Certificate of Specialization must be completed at Cuyamaca College.

Elementary Education

- Elementary Teacher Education for Transfer (AA-T) (p. 85)
- Elementary Teacher Education: Integrated Programs for Transfer (AA-T) (p. 86)
- Elementary Education Associate in Arts (p. 87)

Associate Degree for Transfer℠

Elementary Teacher Education for Transfer (AA-T)

The Associate in Arts in Elementary Teacher Education for Transfer (AA-T in Elementary Teacher Education) is designed to provide lower division preparation for Liberal Arts, Liberal Studies, Integrated Teacher Education, or a similar major at a baccalaureate institution. It is an interdisciplinary

program that provides students with a foundation of knowledge in the areas of English composition, oral communication, physical and life sciences, social sciences, arts and humanities, and critical thinking. Transfer students earning the AA-T in Elementary Teacher Education will receive a broad, general education focus that will prepare them to teach a variety of subjects at the elementary school level.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Use arithmetic, algebraic, geometric, and statistical methods to solve quantitative problems.
2. Describe U.S. political institutions and evaluate how social issues are shaped by political, geographical, and historical forces.
3. Apply concepts from the physical and biological sciences to evaluate information and solve scientific problems.
4. Analyze key elements and historical or philosophical contexts of artistic, cultural, and intellectual works, such as literature, art, music, theater, film, philosophy, and architecture.
5. Communicate clearly and effectively in diverse educational settings through both oral and written expression.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
BIOL-C1000	Introduction to Biology With Lab	4
CDEV-C1000	Child Growth and Development	3
COMM-C1000	Introduction to Public Speaking	3
ED-200	Teaching as a Profession	3
ENGL-C1000	Academic Reading and Writing	4-6
or ESL-122	College Rhetoric	
ENGL-C1002	Introduction to Literature	3
or HIST-100	Early World History	
HIST-C1001	United States History to 1877	3
POLS-C1000	American Government and Politics	3
List A: Choose 1 pair:		4-8
GEOL-104 & GEOG-121	Earth Science and Physical Geography: Earth Systems Laboratory	
or		
CHEM-120 & PHYC-110	Preparation for General Chemistry and Introductory Physics	
List B		
Select one of the following:		3
ART-100	Art Appreciation	
MUS-110	Great Music Listening	
THTR-110	Introduction to the Theatre	
List C: Complete 8 units		
MATH-125	Structure and Concepts of Elementary Mathematics I	3
MATH-126	Structure and Concepts of Elementary Mathematics II	3
MATH-128	Children's Mathematical Thinking	2
Units for the Major		**41-47**
Double-Counted Units		28
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		7-13
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into Liberal Studies Generalist Education.

Associate Degree for Transfer℠

Elementary Teacher Education for Transfer: Integrated Programs (AA-T)

The Associate in Arts in Elementary Teacher Education for Transfer (AA-T in Elementary Teacher Education) is designed to provide lower division preparation for Liberal Arts, Liberal Studies, Integrated Teacher Education, or a similar major at a baccalaureate institution. It is an interdisciplinary program that provides students with a foundation of knowledge in the areas of English composition, oral communication, physical and life sciences, social sciences, arts and humanities, and critical thinking. Transfer students earning the AA-T in Elementary Teacher Education will receive a broad, general education focus that will prepare them to teach a variety of subjects at the elementary school level.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC); see Degree Requirements and Transfer Information section for more information.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Use arithmetic, algebraic, geometric, and statistical methods to solve quantitative problems.
2. Describe U.S. political institutions and evaluate how social issues are shaped by political, geographical, and historical forces.

3. Apply concepts from the physical and biological sciences to evaluate information and solve scientific problems.
4. Analyze key elements and historical or philosophical contexts of artistic, cultural, and intellectual works, such as literature, art, music, theater, film, philosophy, and architecture.
5. Communicate clearly and effectively in diverse educational settings through both oral and written expression.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
BIOL-C1000	Introduction to Biology With Lab	4
CDEV-C1000	Child Growth and Development	3
COMM-C1000	Introduction to Public Speaking	3
ED-200	Teaching as a Profession	3
ENGL-C1000	Academic Reading and Writing	4-6
or ESL-122	College Rhetoric	
ENGL-C1002	Introduction to Literature	3
or HIST-100	Early World History	
HIST-C1001	United States History to 1877	3
POLS-C1000	American Government and Politics	3
List A		
GEOL-104 & GEOG-121	Earth Science and Physical Geography: Earth Systems Laboratory	4
List B		
Select one of the following:		3
ART-100	Art Appreciation	
MUS-110	Great Music Listening	
THTR-110	Introduction to the Theatre	
List C		
Complete eleven units:		
GEOG-106	World Regional Geography	3
MATH-125	Structure and Concepts of Elementary Mathematics I	3
MATH-126	Structure and Concepts of Elementary Mathematics II	3
MATH-128	Children's Mathematical Thinking	2
Units for the Major		**44-46**
Double-Counted Units		28
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		8-10
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into Liberal Studies Education Generalist.

Elementary Education Associate in Arts



This degree program is designed to provide lower division preparation for transfer to San Diego State University as a Liberal Studies major. Because the degree emphasizes a strong general education approach, it may be an appropriate major for a variety of career options. Students are encouraged to refer to the San Diego State University catalog and/or consult with an academic advisor before selecting the various options listed below. Upon completion, students may request certification of lower division general education course work required by the California State University system. Students interested in transferring to another college or university should check the requirements of that institution.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate global awareness and cultural sensitivity.
2. Be prepared to request certification of lower division general education course work required by the California State University system.
3. Demonstrate effective communication and interpersonal skills in diverse teaching and learning settings.

Career Opportunities

Administrator[1]
Audiovisual Specialist
School Clerical Worker
Counselor[1]
Educational Consultant[1]
Educational Psychologist[1]
Educational Therapist[1]
Educational Writer[1]
Food Service
Guidance Worker[1]
Librarian[1]
Library Technician
Social Psychologist[1]
Speech Pathologist/Audiologist[1]
Teacher[1]
Teacher's Aide
Tutor

[1] Bachelor Degree or higher required.

Associate in Arts Degree Requirements

Code	Title	Units
Composition, Oral Communication, and Literature		
1. Composition:		
Select one of the following:		4-6
ENGL-C1000	Academic Reading and Writing	
ESL-122	College Rhetoric	
Select one of the following:		3

COMM-137	Critical Thinking in Group Communication	
COMM-145	Argumentation	
ENGL-C1001	Critical Thinking and Writing	
PHIL-125	Critical Thinking and Philosophical Composition	
PHIL-130	Logic	
2. Communication (minimum three units):		
Select one of the following:		3
COMM-C1004	Interpersonal Communication	
COMM-C1000	Introduction to Public Speaking	
3. Literature (minimum three units):		
ENGL-C1002	Introduction to Literature	3
Mathematics and Sciences		
4. Mathematics:		
MATH-125	Structure and Concepts of Elementary Mathematics I	3
MATH-126	Structure and Concepts of Elementary Mathematics II	3
5. Biological Sciences:		
BIOL-C1000	Introduction to Biology With Lab	4
6. Physical Sciences:		
GEOL-104	Earth Science	3
Social Science and History		
7. Global Perspective:		
GEOG-106	World Regional Geography	3
8. American Institutions:		
Select one of the following:		3
HIST-C1001	United States History to 1877	
HIST-C1002	United States History since 1865	
POLS-C1000	American Government and Politics	
9. Civilizations:		
HIST-100	Early World History	3
Visual and Performing Arts/Humanities		
10. Theatre:		
THTR-110	Introduction to the Theatre	3
11. Human Growth and Development:		
CDEV-C1000	Child Growth and Development	3
12. Ethnic Studies (Select one from each section)		6
A.		
ETHN-130	U.S. History and Cultures: Native American Perspectives I	
ETHN-131	U.S. History and Cultures: Native American Perspectives II	
HIST-118	U.S. History: Chicano/Chicana Perspectives I	
HIST-119	U.S. History: Chicano/Chicana Perspectives II	
HIST-130	U.S. History and Cultures: Native American Perspectives I	
HIST-131	U.S. History and Cultures: Native American Perspectives II	
HIST-180	U.S. History: Black Perspectives I	
HIST-181	U.S. History: Black Perspectives II	
B.		
ENGL-236	Chicana/o Literature	
ENGL-238	Black Literature	
ETHN-107	History of Race & Ethnicity in the United States	
ETHN-114	Introduction to Race & Ethnicity	
ETHN-236	Chicana/o Literature	
ETHN-238	Black Literature	
HIST-107	History of Race & Ethnicity in the United States	
SOC-114	Introduction to Race & Ethnicity	
13. Additional Requirements:		
ED-200	Teaching as a Profession	3
ES-253	Physical Education in Elementary Schools	3
HED-105	Health Education for Teachers	1
MATH-128	Children's Mathematical Thinking	2
MUS-118	Introduction to Music	4
ES Activity (at least two ES courses listed in GE Area 7B)		2-3
Total Units		**62-65**

Recommended Elective

Code	Title	Units
PSC-100	Physical Science for Elementary Education (Offered at Grossmont College; required for major at SDSU)	3

Ethnic Studies Associate in Arts



Ethnic Studies is a dynamic academic discipline and community that provides an understanding of the history, culture, and contributions of African Americans, Asian Americans, Latino/a/x Americans, Middle Eastern Americans, and Native Americans. Courses introduce students to the concepts of race and ethnicity, how race and ethnicity intersect with other forms of identity, and the role of power and inequality in the United States. It is an interdisciplinary degree, drawing from the arts, English, history, humanities, Kumeyaay studies, political science, sociology, and others. Ethnic Studies faculty foster community and promote civic engagement and social justice through a variety of panels, presentations, and field trips.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
2. Evaluate and apply subject matter to students' lived experiences and current events.
3. Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
4. Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
5. Research and explore career options and/or obtain experience in a career field.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
ETHN-107/HIST-107	History of Race & Ethnicity in the United States	3
ETHN-114/SOC-114	Introduction to Race & Ethnicity	3
ETHN-120	Introduction to Ethnic Studies	3
Select four of the following:		12
ETHN-128	Introduction to Chicana/o Studies	
ETHN-130/ HIST-130	U.S. History and Cultures: Native American Perspectives I	
ETHN-131/ HIST-131	U.S. History and Cultures: Native American Perspectives II	
ETHN-145	Introduction to Black Studies	
ETHN-162	Introduction to Asian American Studies	
ETHN-236/ ENGL-236	Chicana/o Literature	
ETHN-238/ ENGL-238	Black Literature	
KUMY-116/ HUM-116	Kumeyaay Arts and Culture I	
KUMY-128/ HIST-128	Kumeyaay History I: Precontact - 1845	
KUMY-129/ HIST-129	Kumeyaay Hist II: 1846 - Present	
KUMY-166/ POSC-166	Introduction to Native American Politics and Policy	
Total Units		**21**

Plus General Education Requirements (p. 57)

General Studies: Social and Behavioral Sciences

The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

Requirements

To meet the General Studies degree requirements, a student must complete the following:

I. **AS or AA General Education Requirements** (see Degree Requirements and Transfer Information section)
and
II. **Choose a minimum of 18 units**

Students must complete a minimum of three units in Social Science and three units in Behavioral Science. The remaining twelve units may be taken from either category.

The Associate in Arts in General Studies with an Emphasis in Social and Behavioral Sciences will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses emphasize the study and understanding of human behavior. Students will evaluate and interpret human societies; the institutions, organizations and groups that form them; the ways in which individuals and groups relate to one another; and various approaches and methodologies of the disciplines.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Describe general principles of the political institutions and government of the United States.
2. Analyze the role of social, political, and economic institutions within a historical perspective.
3. Evaluate the ways people act and interact in cultures, societies and social subgroups.
4. Assess how social issues are influenced by geographical and historical processes.
5. Apply knowledge of social and behavioral sciences theories and scientific methods in an assessment of real-world problems.

Social Science

Code	Title	Units
ANTH-120	Cultural Anthropology	3
ANTH-140	Introduction to Archaeology	3
ARBC-145	Arabic Civilizations	3
BIO-134	Ethnobotany	3
CD-145	Child Abuse and Family Violence in Our Society	3
COUN-120	College and Career Success	3
COUN-140	Self Awareness and Interpersonal Relationships	3
ECON-110	Economic Issues and Policies	3
ECON-C2001	Principles of Microeconomics	3
ECON-C2002	Principles of Macroeconomics	3
ETHN-107	History of Race & Ethnicity in the United States	3
ETHN-114	Introduction to Race & Ethnicity	3
ETHN-120	Introduction to Ethnic Studies	3
ETHN-128	Introduction to Chicana/o Studies	3
ETHN-130	U.S. History and Cultures: Native American Perspectives I	3
ETHN-131	U.S. History and Cultures: Native American Perspectives II	3
ETHN-145	Introduction to Black Studies	3
ETHN-162	Introduction to Asian American Studies	3
GEND-116	Introduction to Women's Studies	3
GEND-117	Introduction to LGBTQ Studies	3
GEOG-106	World Regional Geography	3

GEOG-122	Regional Field Studies in Physical Geography and Geology of Desert Environments	1
GEOG-130	Human Geography: The Cultural Landscape	3
HIST-100	Early World History	3
HIST-101	Modern World History	3
HIST-105	Early Western Civilization	3
HIST-106	Modern Western Civilization	3
HIST-107	History of Race & Ethnicity in the United States	3
HIST-118	U.S. History: Chicano/Chicana Perspectives I	3
HIST-119	U.S. History: Chicano/Chicana Perspectives II	3
HIST-122	Women in Early American History	3
HIST-123	Women in Modern American History	3
HIST-124	History of California	3
HIST-128	Kumeyaay History I: Precontact - 1845	3
HIST-129	Kumeyaay History II: 1846 - Present	3
HIST-130	U.S. History and Cultures: Native American Perspectives I	3
HIST-131	U.S. History and Cultures: Native American Perspectives II	3
HIST-148	The Modern Middle East	3
HIST-180	U.S. History: Black Perspectives I	3
HIST-181	U.S. History: Black Perspectives II	3
HIST-275	Historical Period	3
HIST-276	Geographical Area	3
HIST-277	Historical Theme	3
HIST-C1001	United States History to 1877	3
HIST-C1002	United States History since 1865	3
KUMY-128	Kumeyaay History I: Precontact - 1845	3
KUMY-129	Kumeyaay Hist II: 1846 - Present	3
KUMY-150	Introduction to Cultural Resource Management	3
KUMY-160	Introduction to Archaeological Field Work	3
KUMY-166	Introduction to Native American Politics and Policy	3
KUMY-170	Kumeyaay Conflict Resolution	3
POLS-C1000	American Government and Politics	3
POSC-120	Introduction to Politics and Political Analysis	3
POSC-124	Introduction to Comparative Government and Politics	3
POSC-130	Introduction to International Relations	3
POSC-140	Introduction to California Governments and Politics	3
POSC-145	Introduction to Latin American Government and Politics	3
POSC-147	Introduction to Middle East Government and Politics	3
POSC-148	American Foreign Policy	3
POSC-150	Introduction to Political Theory	3
POSC-165	Introduction to the Politics of Race and Gender	3
POSC-166	Introduction to Native American Politics and Policy	3
POSC-170	Introduction to Political Science Research Methods	3
SOC-114	Introduction to Race & Ethnicity	3
SOC-125	Marriage, Family, and Alternative Lifestyles	3
SOC-130	Contemporary Social Problems	3
SOC-138	Social Psychology	3
SOC-140	Sex and Gender Across Cultures	3
SOC-150	Latinx Communities in the United States	3
SOCI-C1000	Introduction to Sociology	3
SPAN-145	Hispanic Civilizations	3
SW-170	Kumeyaay Conflict Resolution	3

Behavioral Science

Code	Title	Units
CD-115	Changing American Family	3
CD-131	Child, Family and Community	3
CDEV-C1000	Child Growth and Development	3
COMM-110	Introduction to Mass Communication	3
COMM-124	Intercultural Communication	3
ES-121	Introduction to Sport, Exercise, and Performance Psychology	3
HED-120	Personal Health and Lifestyles	3
HED-201	Introduction to Public Health	3
HED-203	Substance Abuse and Public Health	3
HED-204	Health and Social Justice	3
HED-251	Healthy Lifestyles: Theory and Application	3
GEND-119	Psychology of Gender	3
NUTR-158	Nutrition for Fitness and Sports	3
PSYC-C1000	Introduction to Psychology	3
PSY-119	Psychology of Gender	3
PSY-121	Introduction to Sport, Exercise, and Performance Psychology	3
PSY-125	Cross-Cultural Psychology	3
PSY-132	Psychology of Health	3
PSY-134	Human Sexuality	3
PSY-138	Social Psychology	3
PSY-140	Physiological Psychology	3
PSY-150	Developmental Psychology	3
PSY-170	Abnormal Psychology	3
PSY-201	Academic and Career Opportunities in Psychology	1
PSY-211	Cognitive Psychology	3
PSY-220	Learning	3

Associate Degree for Transfer℠

Political Science for Transfer (AA-T)

Transferring to a California State University campus

The AA-T in Political Science for Transfer is designed to prepare students to transfer to a California State University (CSU) with the intent of earning a Bachelor of Arts degree in Political Science.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Transferring to a University of California campus

Additionally, this AA-T degree aligns with the University of California (UC) Transfer Pathway for Political Science. While each UC campus has its own unique requirements for students earning a Bachelor of Arts degree in Political Science, this AA-T degree offers students foundational knowledge that they will need to be successful in a political science program at any UC campus.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Remember the major concepts of subfields of political science and their relevance to political behavior and political institutions across diverse communities and cultures.
2. Understand the historical roots and major theories, conceptualizations, operationalizations, and measurements utilized in political science and its subfields from multiple perspectives.
3. Apply the scientific method to explain political behavior and political institutions.
4. Analyze the application of political science's abstract theories, empirical regularities, and public policy applications towards civic engagement domestically and internationally.
5. Evaluate how concepts of political actors, networks, and status quo are theoretically and empirically analyzed and their application across diverse communities and cultures.
6. Create a professional research project that uses the scientific method and follows ethical guidelines to analyze political phenomenon and/or a public policy project that utilizes data, geographic information systems, policy, and communication analysts' perspectives, and/or a civic engagement project that focuses on local, state, and federal public policies which promote diversity, inclusion, and equity, and/or another capstone project.

Career Opportunities

Students who earn an AA-T in Political Science from Cuyamaca College will be prepared for entry level positions such as a:

- Staff member to an elected official: local (City Councilor or Mayor), state (i.e. Statewide constitutional official, State Senator, State Assembly Member), or federal (i.e. U.S. Senator or Member of Congress)
- Staff member to an appointed official: local (i.e. City Manager or County Chief Executive Officer), regional (i.e. San Diego Association of Governments), or state (i.e. California State Water Resources Control Board Commissioner)
- Staff member in public, private, or non-profit sector's external affairs, government affairs, or regulatory affairs department
- Intern with an international government or non-governmental organization or institution
- Research assistant to a professor at a 4-year university, or a researcher at a public policy think tank, or in an institutional research department

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
Select three of the following:		9
POLS-C1000	American Government and Politics	
POSC-124	Introduction to Comparative Government and Politics	
POSC-130	Introduction to International Relations	
POSC-150	Introduction to Political Theory	
List A		
Select two of the following:		6
POSC-120	Introduction to Politics and Political Analysis	
POSC-165	Introduction to the Politics of Race and Gender	
POSC-170	Introduction to Political Science Research Methods	
Any course not selected from Core		
List B		
Select one of the following:		3
Any course from List A not selected above		
POSC-140	Introduction to California Governments and Politics	
POSC-145	Introduction to Latin American Government and Politics	
POSC-147	Introduction to Middle East Government and Politics	
POSC-148	American Foreign Policy	
POSC-166	Introduction to Native American Politics and Policy	
POSC-180	Introduction to Public Policy	

Units for the Major	**18**
Double-Counted Units	3
Plus General Education Requirements (Cal-GETC) (p. 57)	34
Total Transferable Elective Units	11
Total Units	**60**

Psychology

- Psychology for Transfer (AA-T) (p. 92)
- Behavioral Training Certificate of Achievement (p. 92)

Associate Degree for Transfer℠

Psychology for Transfer (AA-T)

This degree program is designed to present students with a broad base understanding of human behavior so that they may explore human thought and behavior, and various methodologies. Students completing this degree may be interested in pursuing careers in research, counseling, teaching, and other behavioral science professions.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
2. Understand and apply basic research methods in psychology, including research design, data analysis, and interpretation.
3. Respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.
4. Understand and apply psychological principles to personal, social, and organizational issues.
5. Weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a discipline.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
PSY-205	Research Methods in Psychology	4
PSY-215	Statistics for the Behavioral Sciences	4
PSYC-C1000	Introduction to Psychology	3
List A		
Select one of the following:		3
BIOL-C1001	Introduction to Biology	
PSY-140	Physiological Psychology	
List B		
Select one of the following:		3
PSY-138	Social Psychology	
PSY-150	Developmental Psychology	
PSY-211	Cognitive Psychology	
Any course not selected above		
List C		
Select three units from the following:		3-4
PSY-125	Cross-Cultural Psychology	
PSY-132	Psychology of Health	
PSY-134	Human Sexuality	
PSY-170	Abnormal Psychology	
PSY-201	Academic and Career Opportunities in Psychology	
PSY-220	Learning	
Any course not selected above		
Units for the Major		**20-21**
Double-Counted Units		6-9
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		11-15
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into Psychology (Applied).

Behavioral Training Certificate of Achievement

Students who complete the required courses qualify for a Certificate in Behavioral Training. The objectives of the program are for students to be able to: apply the basic elements of behavioral psychology to modify existing behaviors; keep accurate records and input data to track behavioral changes; and explore jobs and careers using behavioral psychology and experience real life situations applying the coursework. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in behavioral psychology.
2. Understand and apply basic research methods in behavioral psychology, including data entry, behavioral assessment, behavior modification plan, data analysis, and future modification plans.
3. Respect and use critical and creative thinking applied to the application of behavioral paradigms in multiple situations.

Certificate Requirements

Code	Title	Units
PSYC-C1000	Introduction to Psychology	3
PSY-220	Learning	3
Select one of the following:		**3-4**
PSY-132	Psychology of Health	
PSY-150	Developmental Psychology	
PSY-215	Statistics for the Behavioral Sciences	
STAT-C1000	Introduction to Statistics	
Total Units		**9-10**

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate of Achievement in Behavioral Training. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Social Work

- Social Work Associate in Arts (p. 93)
- Human Services Certificate of Achievement (https://catalog.gcccd.edu/cuyamaca/associate-degree-programs-certificates/behavioral-social-sciences/social-work/human-services-coa/)

Social Work Associate in Arts

The Cuyamaca College Associate in Arts in Social Work prepares students to further enhance their education, seek employment in various social service settings, or both. Students who complete the program are eligible to transfer to four-year colleges or universities to continue their education toward advanced degrees and potential licensure in Social Work or related fields.

This program offers students coursework focused on skill development around core competencies for generalist practice, including assessment methods, treatment planning, case management, writing/documentation, critical thinking, ethical and professional behavior, advocacy, social justice, cultural competence and techniques for working with individuals, communities, and institutions.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Identify and analyze barriers and issues faced by under-represented and vulnerable communities through the lenses of cultural competence and trauma-informed care.
2. Apply critical thinking skills to case management, crisis intervention, and theory-based assessment to understand and support positive interactions between individuals and their environments.
3. Facilitate use of community resources, community linkages and government assistance programs which support social work practices in diverse environments.
4. Apply knowledge of biopsychosocial factors that affect human development and behavior across life span to case management strategies and approaches.
5. Identify diverse roles of social workers in micro, mezzo and macro levels of practice and evaluate own's professional identity and skills.

Career Opportunities

- Administration[1]
- Child Welfare[1]
- Clinical:
  - Counseling, Therapy[1]
- Community Organizations:
  - Advocacy, Politics, Education[1]
- Criminal Justice/Corrections[1]
- Developmental Disabilities[1]
- Gerontology[1]
- Health Care[1]
- Occupational:
  - Counseling[1]
  - Organizational Development[1]
  - Teaching[1]
  - Wellness Promotion[1]
  - Human Resources[1]
- Public Welfare:
  - Social Work[1]
- Research[1]

[1] Bachelor degree or higher recommended.

Associate in Arts Degree Requirements

Code	Title	Units
BIOL-C1001	Introduction to Biology	3
ECON-C2002	Principles of Macroeconomics	3
or ECON-C2001	Principles of Microeconomics	
HED-201	Introduction to Public Health	3
STAT-C1000	Introduction to Statistics	4
or PSY-215	Statistics for the Behavioral Sciences	
PSYC-C1000	Introduction to Psychology	3
SOCI-C1000	Introduction to Sociology	3

SW-100	Introduction to Social Work	3
SW-110	Social Work Fields of Service	3
Total Units		**25**

Plus General Education Requirements (p. 57)

Human Services Certificate of Achievement

The Cuyamaca College Certificate of Achievement in Human Services prepares students to further enhance their education, seek employment in various social service settings, or both. Students who complete the program are eligible to transfer to four-year colleges or universities to continue their education toward advanced degrees and potential licensure in Social Work or related fields.

This program offers students coursework focused on skill development around core competencies for generalist practice, including assessment methods, treatment planning, case management, writing/documentation, critical thinking, ethical and professional behavior, advocacy, social justice, cultural competence and techniques for working with individuals, communities, and institutions.

Award Note

Students intending to transfer into this major at a CSU or UC should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Identify and analyze barriers and issues faced by under-represented and vulnerable communities through the lenses of cultural competence and trauma-informed care.
2. Apply critical thinking skills to case management, crisis intervention, and theory-based assessment to understand and support positive interactions between individuals and their environments.
3. Facilitate use of community resources, community linkages and government assistance programs which support social work practices in diverse environments.
4. Apply knowledge of biopsychosocial factors that affect human development and behavior across life span to case management strategies and approaches.
5. Identify diverse roles of social workers in micro, mezzo and macro levels of practice and evaluate own professional identity and skills.

Career Options

Most career options directly related to professional (licensed) social work require graduate level degrees. However, there are applied and paraprofessional occupations that value the Certificate of Achievement, which allows students to begin working in the field while they are finishing their educational goals. Social services departments, hospitals, academic and community mental health facilities, child care programs, services for the aged, alcohol and other drug treatment programs, family services agencies, and other community organizations are all examples of settings which employ both professional and paraprofessional social service providers.

Certificate of Achievement Requirements

Code	Title	Units
Courses Required for the Major		
PSYC-C1000	Introduction to Psychology	3
SOCI-C1000	Introduction to Sociology	3
SW-100	Introduction to Social Work	3
SW-110	Social Work Fields of Service	3
SW-130	Introduction to Case Management	3
Select one of the following:		3
BIOL-C1001	Introduction to Biology	
or PSY-140	Physiological Psychology	
ECON-C2001	Principles of Microeconomics	
ECON-C2002	Principles of Macroeconomics	
PSY-150	Developmental Psychology	
PSY-170	Abnormal Psychology	
SOC-130	Contemporary Social Problems	
Total Units		**18**

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate of Achievement in Human Services. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Associate Degree for Transfer℠

Sociology for Transfer (AA-T)

This degree program is designed to provide students with a broad understanding of human interaction, social processes, social structures, and tools of sociological investigation. Students completing this degree may be interested in pursuing careers in teaching, research, social work, and other behavioral science professions.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of “C” or higher or “Pass” in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Evaluate society and make appropriate suggestions for improvement directed at social change.
2. Analyze and interpret the diversity of social experience using a sociological perspective.
3. Engage in critical thinking, analysis and problem solving about social issues.
4. Employ theoretical and methodological approaches to sociological observations of everyday life.
5. Evaluate the implications of multicultural diversity and global interdependence.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
SOCI-C1000	Introduction to Sociology	3
SOC-130	Contemporary Social Problems	3
STAT-C1000	Introduction to Statistics	4
or PSY-215	Statistics for the Behavioral Sciences	
List A		
Select two of the following:		6-7
SOC-114	Introduction to Race & Ethnicity	
SOC-125	Marriage, Family, and Alternative Lifestyles	
PSY-138/SOC-138	Social Psychology	
PSY-205	Research Methods in Psychology	
SOC-140	Sex and Gender Across Cultures	
List B		
Select one of the following:		3
ANTH-120	Cultural Anthropology	
PSYC-C1000	Introduction to Psychology	
SOC-150	Latinx Communities in the United States	
Any course not already used in List A		
Units for the Major		**19-20**
Double-Counted Units		6-12
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		12-19
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into Sociology B.A.

University Studies: Social and Behavioral Sciences

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

Requirements

I. Complete 60 transferable units
   1. CSU or UC transferable units

II. California General Education Transfer Curriculum (Cal-GETC)
   1. Complete 34 units of transfer general education as required for Cal-GETC (see Degree Requirements (p. 57) section of catalog)

III. Choose a minimum of 18 units
   1. Students must complete a minimum of three units in Social Science, and three units in Behavioral Science. The remaining twelve units may be taken from either category.

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Arts in University Studies with an Emphasis in Social and Behavioral Sciences focus on the study and understanding of human behavior. Students will evaluate and interpret human societies; the institutions, organizations, and the groups that form them; the ways in which individuals and groups relate to one another; and various approaches and methodologies of the disciplines. Students completing this area may be interested in the following baccalaureate majors: anthropology, child development, education, history, nutrition, political science, psychology, social work, and sociology.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

Upon successful completion of this program, students will be able to:

1. Describe general principles of the political institutions and government of the United States.
2. Analyze the role of social, political, and economic institutions within a historical perspective.
3. Evaluate the ways people act and interact in cultures, societies and social subgroups.
4. Assess how social issues are influenced by geographical and historical processes.
5. Apply knowledge of social and behavioral sciences theories and scientific methods in an assessment of real-world problems.

Social Science

Code	Title	Units
ANTH-120	Cultural Anthropology	3
ANTH-140	Introduction to Archaeology	3
BIO-134	Ethnobotany	3
COUN-120	College and Career Success	3
COUN-140	Self Awareness and Interpersonal Relationships	3
ECON-110	Economic Issues and Policies	3

ECON-C2001	Principles of Microeconomics	3
ECON-C2002	Principles of Macroeconomics	3
ETHN-107	History of Race & Ethnicity in the United States	3
ETHN-114	Introduction to Race & Ethnicity	3
ETHN-120	Introduction to Ethnic Studies	3
ETHN-128	Introduction to Chicana/o Studies	3
ETHN-130	U.S. History and Cultures: Native American Perspectives I	3
ETHN-131	U.S. History and Cultures: Native American Perspectives II	3
ETHN-145	Introduction to Black Studies	3
ETHN-162	Introduction to Asian American Studies	3
GEND-116	Introduction to Women's Studies	3
GEND-117	Introduction to LGBTQ Studies	3
GEOG-106	World Regional Geography	3
GEOG-130	Human Geography: The Cultural Landscape	3
HIST-100	Early World History	3
HIST-101	Modern World History	3
HIST-105	Early Western Civilization	3
HIST-106	Modern Western Civilization	3
HIST-107	History of Race & Ethnicity in the United States	3
HIST-118	U.S. History: Chicano/Chicana Perspectives I	3
HIST-119	U.S. History: Chicano/Chicana Perspectives II	3
HIST-122	Women in Early American History	3
HIST-123	Women in Modern American History	3
HIST-124	History of California	3
HIST-128	Kumeyaay History I: Precontact - 1845	3
HIST-129	Kumeyaay History II: 1846 - Present	3
HIST-130	U.S. History and Cultures: Native American Perspectives I	3
HIST-131	U.S. History and Cultures: Native American Perspectives II	3
HIST-148	The Modern Middle East	3
HIST-180	U.S. History: Black Perspectives I	3
HIST-181	U.S. History: Black Perspectives II	3
HIST-275	Historical Period	3
HIST-276	Geographical Area	3
HIST-277	Historical Theme	3
HIST-C1001	United States History to 1877	3
HIST-C1002	United States History since 1865	3
KUMY-128	Kumeyaay History I: Precontact - 1845	3
KUMY-129	Kumeyaay Hist II: 1846 - Present	3
KUMY-150	Introduction to Cultural Resource Management	3
KUMY-160	Introduction to Archaeological Field Work	3
KUMY-166	Introduction to Native American Politics and Policy	3
KUMY-170	Kumeyaay Conflict Resolution	3
POLS-C1000	American Government and Politics	3
POSC-120	Introduction to Politics and Political Analysis	3
POSC-124	Introduction to Comparative Government and Politics	3
POSC-130	Introduction to International Relations	3
POSC-140	Introduction to California Governments and Politics	3
POSC-145	Introduction to Latin American Government and Politics	3
POSC-147	Introduction to Middle East Government and Politics	3
POSC-148	American Foreign Policy	3
POSC-150	Introduction to Political Theory	3
POSC-165	Introduction to the Politics of Race and Gender	3
POSC-166	Introduction to Native American Politics and Policy	3
POSC-170	Introduction to Political Science Research Methods	3
SOC-114	Introduction to Race & Ethnicity	3
SOC-125	Marriage, Family, and Alternative Lifestyles	3
SOC-130	Contemporary Social Problems	3
SOC-138	Social Psychology	3
SOC-140	Sex and Gender Across Cultures	3
SOC-150	Latinx Communities in the United States	3
SOCI-C1000	Introduction to Sociology	3
SPAN-145	Hispanic Civilizations	3
SW-170	Kumeyaay Conflict Resolution	3

Behavioral Science

Code	Title	Units
CD-115	Changing American Family	3
CD-131	Child, Family and Community	3
CD-145	Child Abuse and Family Violence in Our Society	3
CDEV-C1000	Child Growth and Development	3
COMM-110	Introduction to Mass Communication	3
COMM-124	Intercultural Communication	3
ES-121	Introduction to Sport, Exercise, and Performance Psychology	3
GEND-119	Psychology of Gender	3
HED-120	Personal Health and Lifestyles	3
HED-201	Introduction to Public Health	3
HED-203	Substance Abuse and Public Health	3
HED-204	Health and Social Justice	3
HED-251	Healthy Lifestyles: Theory and Application	3
PSYC-C1000	Introduction to Psychology	3
PSY-119	Psychology of Gender	3
PSY-121	Introduction to Sport, Exercise, and Performance Psychology	3
PSY-125	Cross-Cultural Psychology	3
PSY-132	Psychology of Health	3
PSY-134	Human Sexuality	3
PSY-138	Social Psychology	3

PSY-140	Physiological Psychology	3
PSY-150	Developmental Psychology	3
PSY-170	Abnormal Psychology	3
PSY-201	Academic and Career Opportunities in Psychology	1
PSY-211	Cognitive Psychology	3
PSY-220	Learning	3

Business and Professional Studies



- Accounting (p. 98)
- Business (p. 99)
- Business Office Technology (p. 102)
- Economics for Transfer (AA-T) (p. 108)
- General Studies: Business and Technology (p. 110)
- Management Associate in Science and Certificate of Achievement (p. 111)
- Paralegal Studies Associate in Science (p. 111)
- Real Estate (p. 112)
- University Studies: Business and Economics (p. 114)

Accounting



- Accounting Associate in Science and Certificate of Achievement (p. 98)
- Bookkeeping Certificate of Achievement (p. 98)

Accounting Associate in Science and Certificate of Achievement



This degree program is designed to prepare students to enter the workforce as accounting technicians or tax technicians. The curriculum is supported by related business courses and a strong general education program for students interested in qualifying for responsible positions in accounting. *Designed for a two-year degree or certificate. Students interested in pursuing a bachelor's degree in accounting should consult the catalog of the transfer institution for specific requirements.*

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Use personal and ethical frameworks to respond to ethical dilemmas.
2. Articulate the role of accounting within economic or industry environments through effective communication.
3. Demonstrate analytical and information technology skills needed to solve business problems or give recommendations to improve business processes.

Career Opportunities

- Auditor[1]
- Budgeter[1]
- Bank Examiner[1]
- Bookkeeper
- Cost Accountant[1]
- Certified Accountant[1]
- Controller[1]
- Credit Card Clerk
- Securities Clerk
- Systems Analyst[1]
- Tax Specialist/Accountant[1]
- Treasurer[1]

[1] Bachelor Degree or higher required.

Accounting Associate in Science Degree Requirements

Code	Title	Units
BUS-120	Financial Accounting	4
BUS-121	Managerial Accounting	4
BUS-122	Intermediate Accounting	4
BUS-124	Auditing	3
BUS-125	Business Law: Legal Environment of Business	3
BUS-128	Business Communication	3
BUS-150	Individual Income Tax Accounting	3
BUS-162	Analysis of Financial Statements	3
BUS-176	Computerized Accounting Applications	2
CIS-110	Principles of Information Systems	4
Total Units		**33**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Accounting. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Bookkeeping Certificate of Achievement



This certificate is for students who need very specific training in the area of bookkeeping, either to obtain the necessary skills for an entry level office position, start their own business, or provide technical competence for advancement within the office environment.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Apply bookkeeping concepts, principles, standards and processes.
2. Demonstrate information technology skills as they apply to today's business environment to solve business problems and to communicate those solutions.
3. Use personal and ethical frameworks to respond to ethical dilemmas.

Certificate Requirements

Code	Title	Units
BOT-123	Comprehensive Excel, Level I	1
BOT-124	Comprehensive Excel, Level II	1
BOT-125	Comprehensive Excel, Level III	1
BOT-174	Computer Concepts and Applications	3
BUS-109	Elementary Accounting	3-4
or BUS-120	Financial Accounting	
BUS-128	Business Communication	3
or BUS-125	Business Law: Legal Environment of Business	
BUS-129	Payroll Accounting and Business Taxes	2
BUS-176	Computerized Accounting Applications	2
Total Units		**16-17**

Note: BUS-109 Elementary Accounting may be taken instead of BUS-120 Financial Accounting for the Bookkeeping certificate only.

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Bookkeeping. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Business

- Business Administration 2.0 for Transfer (AS-T) (p. 99)
- Business Administration Associate in Science and Certificate of Achievement (p. 100)
- Business–General Associate in Science and Certificate of Achievement (p. 100)
- Entrepreneurship-Small Business Management Associate in Science and Certificate of Achievement (p. 101)
- Craft Industries Entrepreneurship Certificate of Specialization (p. 102)

Associate Degree for Transfer℠

Business Administration 2.0 for Transfer (AS-T)

This program is designed to provide students with the common core of lower division courses required to transfer and pursue a baccalaureate degree in Business Administration. This includes business degrees with options such as accounting, finance, human resources management, international business, management, operations management, and marketing. This major aligns with the California State University (CSU) Bachelor of Science in Business Administration.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Recognize essential functions and concerns specific to human resources, management, and general business operations.
2. Identify and analyze business problems or entrepreneurial opportunities and effectively communicate recommendations for courses of actions.

Associate in Science Degree Requirements

Code	Title	Units
BUS-120	Financial Accounting	4
BUS-121	Managerial Accounting	4
BUS-125	Business Law: Legal Environment of Business	3
BUS-128	Business Communication	3
ECON-C2001	Principles of Microeconomics	3
ECON-C2002	Principles of Macroeconomics	3
MATH-178	Calculus for Business, Social and Behavioral Sciences	4-5
or MATH-C2210	Calculus I: Early Transcendentals	
STAT-C1000	Introduction to Statistics	4
or PSY-215	Statistics for the Behavioral Sciences	
Units for the Major		**28-29**

Double-Counted Units	6
Plus General Education Requirements (Cal-GETC) (p. 57)	34
Total Transferable Elective Units	3-4
Total Units	**60**

Please note: SDSU accepts this degree for students transferring into Business Administration (Financial Services) or Business Administration (General) majors.

Business Administration Associate in Science and Certificate of Achievement



This degree program is designed to provide students who choose to work toward a bachelor's degree a well-balanced introduction to a professional career in business. The curriculum fulfills the lower division requirements for most majors in the School of Business Administration at San Diego State University and is typical of requirements at other four-year schools. For specific requirements, transfer students should consult the catalog of their selected institution.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Apply accounting concepts and methods to interpret financial statements for evaluating the financial position and performance of organizations.
2. Recognize and appropriately respond to ethical and legal concerns relating to human resource and organizational management.
3. Identify and analyze business problems or opportunities and effectively communicate recommendations for courses of actions.

Career Opportunities

Advertising/Marketing Manager[1]
Agricultural Marketing Specialist[1]
Banker[1]
Broker[1]
Consultant
Computer Operations Specialist[1]
Credit Investigator
Economic Forecaster[1]
Financial Analyst[1]
Hospital Administrator[1]
Import/Export Agent
Market Research Analyst[1]
Personnel Manager[1]
Real Estate Broker/Agent
Retail Manager
Securities Analyst/Trader[1]

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
BUS-120	Financial Accounting	4
BUS-121	Managerial Accounting	4
BUS-125	Business Law: Legal Environment of Business	3
BUS-128	Business Communication	3
CIS-110	Principles of Information Systems	4
ECON-C2001	Principles of Microeconomics	3
ECON-C2002	Principles of Macroeconomics	3
MATH-178	Calculus for Business, Social and Behavioral Sciences	4
STAT-C1000	Introduction to Statistics	4
Total Units		**32**

Plus General Education Requirements (p. 57)

Recommended Elective: BUS-156 Principles of Management

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate of Achievement in Business Administration. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Business–General Associate in Science and Certificate of Achievement



This degree program is designed to develop and foster those skills and understandings which can be utilized for employment in an increasingly challenging business environment. The curriculum provides students with a broad preparation for a career in business. Business courses are included which provide a solid background for future promotion in a chosen occupational area. The degree is designed for students who do not plan to transfer to a four-year college or university.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Apply accounting concepts and methods to interpret financial statements for evaluating the financial position and performance of organizations.
2. Recognize and appropriately respond to ethical and legal concerns relating to human resource and organizational management.
3. Identify and analyze business problems or opportunities and effectively communicate recommendations for courses of actions.

Career Opportunities

Administrative Assistant
Bookkeeper
Budget Consultant[1]
Buyer
Conciliator
Credit Analyst[1]
Employment Interviewer
Hospital Administrator[1]
Sales Agent
Trust Officer[1]

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
BUS-109	Elementary Accounting	3-4
or BUS-120	Financial Accounting	
BUS-110	Introduction to Business	3
BUS-115	Human Relations in Business	3
BUS-125	Business Law: Legal Environment of Business	3
BUS-128	Business Communication	3
BUS-161	Business Internship	1-3
BUS-195	Principles of Money Management for Success	3
BOT-174	Computer Concepts and Applications	3-4
or CIS-110	Principles of Information Systems	
ECON-110	Economic Issues and Policies	3
or ECON-C2002	Principles of Macroeconomics	
Total Units		**25-29**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate of Achievement in Business—General. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Entrepreneurship-Small Business Management Associate in Science and Certificate of Achievement



This degree program provides a course of study for students who are interested in developing an appreciation and understanding of the functional areas within the small business environment. The degree provides a working knowledge of small business operations to both the prospective business person as well as the owner/manager of an existing business.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Recognize and appropriately respond to ethical and legal concerns relating to human resource and organizational management.
2. Identify and analyze business problems or entrepreneurial opportunities and effectively communicate recommendations for courses of actions.
3. Demonstrate an understanding of the requirements to start a new venture, including the basics of leadership, team building, finance, marketing and management.

Career Opportunities

Small Business Owner/Manager
Entrepreneur
Intrapraneur (acting as an entrepreneur within a large company)
Franchisee
Consultant
Assistant Manager
Small Business Specialist
Associate Account Manager
Small Business Developer
Business Assistant Coordinator

Associate in Science Degree Requirements

Code	Title	Units
BUS-109	Elementary Accounting	3-4
or BUS-120	Financial Accounting	
BUS-110	Introduction to Business	3
BUS-111	Entrepreneurship: Starting and Developing a Business	3
BUS-125	Business Law: Legal Environment of Business	3
BUS-128	Business Communication	3
Select two of the following:		4-6
BUS-112	Craft Entrepreneur	
BUS-115	Human Relations in Business	
BUS-156	Principles of Management	
BUS-176	Computerized Accounting Applications	
Select at least three units from the following:		3
BOT-114	Essential Word	
BOT-115	Essential Excel	
BOT-116	Essential Access	
BOT-117	Essential Powerpoint	
BOT-132	Google Applications for Business	
BOT-174	Computer Concepts and Applications	
Total Units		**22-25**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate of Achievement in Entrepreneurship—Small Business Management. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Craft Industries Entrepreneurship Certificate of Specialization



The Craft Industries program is designed to provide those entering this highly charged business environment with the basic skills to make it happen. Each student will build their business from the bottom up by understanding the standards and innovative solutions to the practical components of establishing any operational business model. The program is unique; it incorporates the traditional entrepreneurship theory mixed with down-to-earth tools and applications, while keeping in sight its ultimate goal of providing a means for the student to launch their craft business.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrated understanding of the Craft Industry's environment and its relationship to the many facets of entrepreneurship.
2. Demonstrated competency in management practices, in particular business's role in achieving sustainability, and ethical and civic responsibility.

Entrepreneurship Opportunities

Small businesses that include:

- Breweries and Brewpubs
- Coffee Shops and Roasters
- Artisan Foods
- Cultivation and Production
- Management
- Handmade Textiles
- Manufacturing and Production
- Material Suppliers for Artisans

Certificate Requirements

Code	Title	Units
Core Curriculum		
BUS-112	Craft Entrepreneur	2
BUS-111	Entrepreneurship: Starting and Developing a Business	3
BUS-125	Business Law: Legal Environment of Business	3
BUS-109	Elementary Accounting	3
Select at least four units from the following:		4
BOT-107	Office Systems and Procedures	
BOT-114	Essential Word	
BOT-115	Essential Excel	
BOT-117	Essential Powerpoint	
BOT-132	Google Applications for Business	
BOT-151	Using Microsoft Outlook	
Total Units		**15**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Business Office Technology



- Administrative Assistant Associate in Science and Certificate of Achievement (p. 102)
- Business Office Technology Associate in Science and Certificate of Achievement (p. 103)
- Executive Assistant Associate in Science and Certificate of Achievement (p. 104)
- Account Clerk Certificate of Specialization (p. 105)
- Business Information Worker Certificate of Achievement (p. 105)
- Front Office Receptionist Certificate of Specialization (p. 105)
- Office Assistant Level I Certificate of Specialization (p. 106)
- Office Assistant Level II Certificate of Specialization (p. 106)
- Office Professional Certificate of Specialization (p. 107)
- Office Software Specialist Level I Certificate of Specialization (p. 107)
- Office Software Specialist Level II Certificate of Specialization (p. 108)

Administrative Assistant Associate in Science and Certificate of Achievement



This degree program prepares students for employment in today's business offices which are technology intensive. The curriculum is also appropriate for those wishing to update current skills. Emphasis is on the computerized office and development into supervisory positions.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic language and concepts within the field of business office technology.
2. Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing,

spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.

Associate in Science Degree Requirements

Code	Title	Units
BOT-100	Basic Keyboarding	1
BOT-101A & BOT-101B	Keyboarding/Document Processing I and Keyboarding/Document Processing II	3
BOT-104	Filing and Records Management	1
BOT-106	Effective Job Search	1
BOT-107	Office Systems and Procedures	2
BOT-118	Integrated Office Projects	1
BUS-128	Business Communication	3
Select one of the following options:		1-3
Option A:		
BOT-114	Essential Word	
Option B:		
BOT-120	Comprehensive Word, Level I	
BOT-121	Comprehensive Word, Level II	
BOT-122	Comprehensive Word, Level III	
Select one of the following options:		1-3
Option A:		
BOT-115	Essential Excel	
Option B:		
BOT-123	Comprehensive Excel, Level I	
BOT-124	Comprehensive Excel, Level II	
BOT-125	Comprehensive Excel, Level III	
Select one of the following options:		1-3
Option A:		
BOT-116	Essential Access	
Option B:		
BOT-126	Comprehensive Access, Level I	
BOT-127	Comprehensive Access, Level II	
BOT-128	Comprehensive Access, Level III	
Select one of the following options:		1-2
Option A:		
BOT-117	Essential Powerpoint	
Option B:		
BOT-129	Comprehensive PowerPoint, Level I	
BOT-130	Comprehensive PowerPoint, Level II	
Select one to three units of the following:		1-3
BOT-223	Office Work Experience	
BOT-224	Office Work Experience	
BOT-225	Office Work Experience	
Select at least five units from the following:		5-5.5
BOT-103A	Building Keyboarding Skill I	
BOT-103B	Building Keyboarding Skill II	
BOT-103C	Building Keyboarding Skill III	
BOT-132	Google Applications for Business	
BOT-133	Adobe Acrobat for the Workplace	
BOT-150	Using Microsoft Publisher	
BOT-151	Using Microsoft Outlook	
BUS-109	Elementary Accounting	
BUS-120	Financial Accounting	
Total Units		**22-31.5**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Administrative Assistant. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Business Office Technology Associate in Science and Certificate of Achievement



This degree program prepares students for employment in today's business offices which are technology intensive. The curriculum is also appropriate for those wishing to update current skills. Emphasis is on the computerized office and development into supervisory positions.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic language and concepts within the field of business office technology.
2. Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.

Career Opportunities

Account Clerk
Administrative Assistant
Bank Teller
Billing Clerk
Bookkeeper
Brokerage Clerk
Computer Operator
Court Clerk
Customer Service Representative
Executive Assistant
Executive Secretary
File Clerk
General Office Clerk
Hotel/Motel Desk Clerk
Information Clerk
Insurance Clerk
Legal Secretary
Loan/Credit Clerk
Medical Secretary
Office Manager
Personnel Clerk

Real Estate Clerk
Secretary
Word Processing Specialist

Associate in Science Degree Requirements

Code	Title	Units
BOT-100	Basic Keyboarding	1
BOT-101A & BOT-101B	Keyboarding/Document Processing I and Keyboarding/Document Processing II	3
BOT-102A & BOT-102B	Intermediate Keyboarding/Document Processing I and Intermediate Keyboarding/Document Processing II	3
BOT-107	Office Systems and Procedures	2
BOT-120	Comprehensive Word, Level I	1
BOT-121	Comprehensive Word, Level II	1
BOT-122	Comprehensive Word, Level III	1
BOT-174	Computer Concepts and Applications	3
BUS-128	Business Communication	3
Select at least six units from the following		6
BOT-119	Windows for the Information Worker	
BOT-123	Comprehensive Excel, Level I	
BOT-124	Comprehensive Excel, Level II	
BOT-125	Comprehensive Excel, Level III	
BOT-223	Office Work Experience	
BOT-224	Office Work Experience	
BOT-225	Office Work Experience	
BUS-109	Elementary Accounting	
or BUS-120	Financial Accounting	
BUS-156	Principles of Management	
BUS-176	Computerized Accounting Applications	
Total Units		**24**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Business Office Technology. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Executive Assistant Associate in Science and Certificate of Achievement

This degree program prepares students for employment in today's business offices which are technology intensive. The curriculum is also appropriate for those wishing to update current skills. Emphasis is on the computerized office and development into supervisory positions.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic language and concepts within the field of business office technology.
2. Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.

Associate in Science Degree Requirements

Code	Title	Units
BOT-100	Basic Keyboarding	1
BOT-101A & BOT-101B	Keyboarding/Document Processing I and Keyboarding/Document Processing II	3
BOT-102A & BOT-102B	Intermediate Keyboarding/Document Processing I and Intermediate Keyboarding/Document Processing II	3
BOT-120	Comprehensive Word, Level I	1
BOT-121	Comprehensive Word, Level II	1
BOT-122	Comprehensive Word, Level III	1
BOT-123	Comprehensive Excel, Level I	1
BOT-124	Comprehensive Excel, Level II	1
BOT-125	Comprehensive Excel, Level III	1
BOT-126	Comprehensive Access, Level I	1
BOT-127	Comprehensive Access, Level II	1
BOT-128	Comprehensive Access, Level III	1
BOT-129	Comprehensive PowerPoint, Level I	1
BOT-130	Comprehensive PowerPoint, Level II	1
BOT-151	Using Microsoft Outlook	1
BUS-128	Business Communication	3
Select at least three units from the following:		3-4
BOT-132	Google Applications for Business	
BUS-109	Elementary Accounting	
BUS-110	Introduction to Business	
BUS-115	Human Relations in Business	
BUS-120	Financial Accounting	
BUS-125	Business Law: Legal Environment of Business	
Select at least three units from the following:		3-3.5
BOT-103A	Building Keyboarding Skill I	
BOT-103B	Building Keyboarding Skill II	
BOT-103C	Building Keyboarding Skill III	
BOT-119	Windows for the Information Worker	
BOT-133	Adobe Acrobat for the Workplace	
BOT-150	Using Microsoft Publisher	
Total Units		**28-29.5**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Executive Assistant. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Account Clerk Certificate of Specialization



This certificate prepares a beginning student to work in a job that requires bookkeeping skills as well as an ability to provide account clerk support using accounting software. Many jobs at the entry level are available for someone who has training in these two areas.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic concepts of using computerized accounting software in the relevant field of business.
2. Appropriately use the vocabulary and accounting procedures specific to the workplace.
3. Use computer input devices, e.g., keyboard or mouse, to efficiently and competently use accounting software specific to the relevant field of business.

Certificate Requirements

Code	Title	Units
BOT-101A & BOT-101B	Keyboarding/Document Processing I and Keyboarding/Document Processing II	3
BUS-109	Elementary Accounting	3-4
or BUS-120	Financial Accounting	
BUS-176	Computerized Accounting Applications	2
Total Units		**8-9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Business Information Worker Certificate of Achievement



The Business Information Worker Certificate of Achievement is a job readiness pathway or certificate for office workers, developed in conjunction with local employers. Enrolled students are prepared in a broad range of entry-level office skills and applications which promote success in a variety of office environments. Essential components of the curriculum include a solid foundation in Microsoft Windows and Office, as well as critical thinking, problem solving, and interpersonal skills.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Use computer input devices to properly and efficiently create and edit documents in word processing and spreadsheet programs, such as Word and Excel, and electronic communications such as email.
2. Work effectively, respectfully, ethically and professionally with people of diverse ethnic, cultural, gender and other backgrounds, and with people of different organizational roles, social affiliations, and personalities.
3. Communicate effectively and professionally in business situations through physical or virtual presence, writing, speaking, and electronic media.

Certificate Requirements

Code	Title	Units
BOT-100	Basic Keyboarding	1
BOT-114	Essential Word	1
BOT-115	Essential Excel	1
BOT-119	Windows for the Information Worker	2
BOT-151	Using Microsoft Outlook	1
BUS-115	Human Relations in Business	3
BUS-128	Business Communication	3
CIS-110	Principles of Information Systems	4
Total Units		**16**

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Business Information Worker. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Front Office Receptionist Certificate of Specialization



This certificate would provide an entry-level employment opportunity for a student that finishes the following courses. These skills are aimed at a student who is seeking a front office receptionist-related position in an office. This certificate prepares a beginning student to work in a job that requires basic keyboarding skills, a basic knowledge of filing, and basic office procedures necessary for meeting and greeting the public in person, by telephone, and electronically.

Program Learning Outcomes

Upon successful completion of this certificate, students will be able to:

Upon successful completion of this program, students will be able to:

1. Explain the basic concepts of business office procedures relevant to an entry-level front office receptionist position.

2. Appropriately use the vocabulary specific to an entry-level front office receptionist position.
3. Use computer input devices, e.g., keyboard or mouse, to efficiently and competently use the software specific to the relevant field of business.

Certificate Requirements

Code	Title	Units
Select one of the following:		1
BOT-100	Basic Keyboarding	
BOT-103A & BOT-103B	Building Keyboarding Skill I and Building Keyboarding Skill II	
BOT-104	Filing and Records Management	1
BOT-107	Office Systems and Procedures	2
BOT-151	Using Microsoft Outlook	1
BOT-174	Computer Concepts and Applications	3
Total Units		**8**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Office Assistant Level I Certificate of Specialization



This certificate prepares students for positions that require keyboarding skills, basic knowledge of filing, and basic computer skills. It is designed for students with no prior computer training and who lack general office background and experience. Upon completion, students will qualify for positions as data entry clerks or other entry level office clerical positions.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic language and concepts within the field of business office technology.
2. Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.

Certificate Requirements

Code	Title	Units
BOT-100	Basic Keyboarding	1
BOT-101A & BOT-101B	Keyboarding/Document Processing I and Keyboarding/Document Processing II	3
BOT-104	Filing and Records Management	1
BOT-119	Windows for the Information Worker	2
BOT-132	Google Applications for Business	3
Total Units		**10**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Office Assistant Level II Certificate of Specialization



This certificate is designed for students who have completed the Office Assistant Level I certificate or have the equivalent in keyboarding and computer skills. It prepares students for advancement in office careers in which knowledge of Microsoft Office applications is required.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic language and concepts within the field of business office technology.
2. Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.

Certificate Requirements

Code	Title	Units
BOT-102A & BOT-102B	Intermediate Keyboarding/Document Processing I and Intermediate Keyboarding/Document Processing II	3
BOT-107	Office Systems and Procedures	2
BOT-114	Essential Word	1
BOT-115	Essential Excel	1
BOT-116	Essential Access	1
BOT-117	Essential Powerpoint	1
Total Units		**9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Office Professional Certificate of Specialization



This certificate is designed for students interested in entry-level positions in a broad spectrum of office environments. Utilizing a short-term, intensive format, students are provided with the basic skills necessary to be productive employees. The curriculum provides the foundation for further study and advancement in the clerical field, which is one of the largest employment areas in our information processing society.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic language and concepts within the field of business office technology.
2. Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.

Certificate Requirements

Code	Title	Units
Select one of the following:		1-3
BOT-100	Basic Keyboarding	
BOT-101A & BOT-101B	Keyboarding/Document Processing I and Keyboarding/Document Processing II	
BOT-102A & BOT-102B	Intermediate Keyboarding/Document Processing I and Intermediate Keyboarding/Document Processing II	
BOT-106	Effective Job Search	1
BOT-107	Office Systems and Procedures	2
BOT-114	Essential Word	1
BOT-115	Essential Excel	1
BUS-128	Business Communication	3
Total Units		**9-11**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Office Software Specialist Level I Certificate of Specialization



This certificate is designed for students interested in working in an administrative support capacity who need working knowledge of word processing, electronic spreadsheet, database and presentation software. These courses may also be applied to the Office Assistant Level II certificate.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic language and concepts within the field of business office technology.
2. Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.

Certificate Requirements

Code	Title	Units
BOT-100	Basic Keyboarding	1
Select one of the following:		1-2
BOT-114	Essential Word	
BOT-120 & BOT-121	Comprehensive Word, Level I and Comprehensive Word, Level II	
Select one of the following:		1-2
BOT-115	Essential Excel	
BOT-123 & BOT-124	Comprehensive Excel, Level I and Comprehensive Excel, Level II	
Select one of the following:		1-2
BOT-116	Essential Access	
BOT-126 & BOT-127	Comprehensive Access, Level I and Comprehensive Access, Level II	
Select one of the following:		1-2
BOT-117	Essential Powerpoint	
BOT-129 & BOT-130	Comprehensive PowerPoint, Level I and Comprehensive PowerPoint, Level II	
Total Units		**5-9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Office Software Specialist Level II Certificate of Specialization

This certificate is designed for students interested in working in an administrative support capacity who need working knowledge of word processing, electronic spreadsheet, database and presentation software as well as software integration techniques. Students who complete the certificate may continue taking courses to earn the Executive Assistant Certificate of Achievement.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic language and concepts within the field of business office technology.
2. Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.

Certificate Requirements

Code	Title	Units
BOT-100	Basic Keyboarding	1
BOT-118	Integrated Office Projects	1
BOT-120	Comprehensive Word, Level I	1
or BOT-114	Essential Word	
BOT-121	Comprehensive Word, Level II	1
BOT-122	Comprehensive Word, Level III	1
BOT-123	Comprehensive Excel, Level I	1
or BOT-115	Essential Excel	
BOT-124	Comprehensive Excel, Level II	1
BOT-125	Comprehensive Excel, Level III	1
BOT-126	Comprehensive Access, Level I	1
or BOT-116	Essential Access	
BOT-127	Comprehensive Access, Level II	1
BOT-129	Comprehensive PowerPoint, Level I	1
or BOT-117	Essential Powerpoint	
BOT-130	Comprehensive PowerPoint, Level II	1
Total Units		**12**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Associate Degree for Transfer℠

Economics for Transfer (AA-T)

The AA-T in Economics for Transfer provides a broad exposure to the field of economics. Students will learn about the factors that determine the production, distribution and consumption of goods and services. They will come to understand the behavior and interactions of economic agents and how economies work. This major prepares student to transfer to a California State University, where a baccalaureate degree may be earned in Economics or a closely related field.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Use economic models to predict changes in societal outcomes based on changes in economic variables.
2. Identify and apply economic principles to personal-life decisions.

Associate in Arts for Transfer Degree Requirements

Code	Title	Units
Required Core		
ECON-C2001	Principles of Microeconomics	3
ECON-C2002	Principles of Macroeconomics	3
MATH-178	Calculus for Business, Social and Behavioral Sciences	4-5
or MATH-C2210	Calculus I: Early Transcendentals	
STAT-C1000	Introduction to Statistics	4
List A		
Select one of the following:		3-4
BUS-120	Financial Accounting	
BUS-121	Managerial Accounting	
BUS-128	Business Communication	
CIS-110	Principles of Information Systems	
MATH-C2220	Calculus II: Early Transcendentals	
List B		
Select any List A course not used		3-4

Units for the Major	**21-23**
Double-Counted Units	6
Plus General Education Requirements (Cal-GETC) (p. 57)	34
Total Transferable Elective Units	9-11
Total Units	**60**

General Studies: Business and Technology



The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

Requirements

To meet the General Studies degree requirements, a student must complete the following:

I. **AS or AA General Education Requirements** (see Degree Requirements and Transfer Information section)
and
II. **Choose a minimum of 18 units**
Students must take a minimum of three units from each area. The remaining units may be taken from any area.

The Associate in Science in General Studies with an Emphasis in Business and Technology will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses emphasize the study of business transaction theory and practice, the operations and strategies of business decisions, legal concepts, and the place of business in the American and global economy as a whole. Students will apply mathematical and quantitative reasoning skills to the discipline's methodologies, as well as evaluate and interpret basic economic principles and theories related to performance and specific economic sectors.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Contribute to an effective and ethical organization.
2. Use information technology to support effective decision making in the business organization.
3. Analyze markets, economic environments and associated trends at the macro and micro levels.
4. Express and apply quantitative information in order to make sound decisions and solve problems in the business environment.

Code	Title	Units
Business		
BUS-109	Elementary Accounting	3
BUS-110	Introduction to Business	3
BUS-111	Entrepreneurship: Starting and Developing a Business	3
BUS-115	Human Relations in Business	3
BUS-120	Financial Accounting	4
BUS-121	Managerial Accounting	4
BUS-122	Intermediate Accounting	4
BUS-124	Auditing	3
BUS-125	Business Law: Legal Environment of Business	3
BUS-128	Business Communication	3
BUS-129	Payroll Accounting and Business Taxes	2
BUS-150	Individual Income Tax Accounting	3
BUS-155	Human Resources Management	3
BUS-156	Principles of Management	3
BUS-161	Business Internship	1-3
BUS-162	Analysis of Financial Statements	3
BUS-176	Computerized Accounting Applications	2
BUS-195	Principles of Money Management for Success	3
Computer and Information Science		
CIS-110	Principles of Information Systems	4
CIS-120	Computer Maintenance and A+ Certification	3
CIS-121	Network Cabling Systems	3
CIS-125	Network+ Certification	3
CIS-140	Databases	3
CIS-162	Technical Diagramming Using Microsoft Visio	2
CIS-190	Windows Operating System	3
CIS-191	Linux Operating System	3
CIS-201	Cisco Academy - Introduction to Networking	3
CIS-202	Cisco Academy - Routing, Switching, and Wireless Essentials	3
CIS-203	Cisco Academy - Enterprise Networking, Security, and Automation	3
CIS-211	Web Development I	3
CIS-213	Web Development II	3
CIS-215	JavaScript Web Programming	3
CIS-219	PHP/MySQL Dynamic Web-based Applications	3
CIS-220	E-Commerce and Web Presence	3
CIS-225	Web Development Capstone	3
CIS-261	NSSA Degree Capstone	2
CIS-263	Fundamentals of Network Security	3
CIS-290	Windows Server-Installing and Configuring	2
CIS-291	Linux System Administration	3
Economics		
ECON-110	Economic Issues and Policies	3
ECON-C2001	Principles of Microeconomics	3
ECON-C2002	Principles of Macroeconomics	3
Mathematics		
MATH-178	Calculus for Business, Social and Behavioral Sciences	4
MATH-C2210	Calculus I: Early Transcendentals	5
STAT-C1000	Introduction to Statistics	4

Management Associate in Science and Certificate of Achievement

This degree program is designed to provide students with the skills necessary to be successful as a manager in today's demanding organizational climate. The curriculum is beneficial to men or women who aspire to mid-level or higher management positions in any type of organization including business, government and service organizations.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Recognize and appropriately evaluate the ethical and legal concerns inherent in various business practices.
2. Identify the differences in leadership and management theories and how they facilitate the overall effectiveness of domestic and multinational business operations.
3. Identify and assess business problems from a subordinate and managerial perspective.
4. Identify and analyze business problems or entrepreneurial opportunities and effectively communicate recommendations for courses of actions.

Career Opportunities

Bank Officer[1]
Claim Adjuster
Computer Operations Supervisor[2]
Director, Research and Development[1]
Employment Interviewer
Financial Planner
Hospital Administrator[1]
Import-Export Agent
Management Trainee
Management Consultant[2]
Office Manager
Stock Broker
Teacher, College[1]

[1] Bachelor Degree or higher required.
[2] Bachelor Degree normally recommended.

Associate in Science Degree Requirements

Code	Title	Units
BUS-115	Human Relations in Business	3
BUS-120	Financial Accounting	4
BUS-125	Business Law: Legal Environment of Business	3
BUS-128	Business Communication	3
BUS-155	Human Resources Management	3
BUS-156	Principles of Management	3
ECON-110	Economic Issues and Policies	3
or ECON-C2002	Principles of Macroeconomics	
Select two of the following:		5-7
BOT-123 & BOT-124 & BOT-125	Comprehensive Excel, Level I and Comprehensive Excel, Level II and Comprehensive Excel, Level III	
BOT-174	Computer Concepts and Applications	
BUS-176	Computerized Accounting Applications	
CIS-110	Principles of Information Systems	
Select a minimum of three units of the following:		3-4
BUS-110	Introduction to Business	
BUS-121	Managerial Accounting	
BUS-161	Business Internship	
BUS-195	Principles of Money Management for Success	
COMM-C1000	Introduction to Public Speaking	
Total Units		**30-33**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Management. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Paralegal Studies Associate in Science

The legal profession has evolved, like the medical profession, into a profession of specialties. Based on this development, lawyers need qualified assistants to better help them provide legal services to their clients. Paralegals are trained, professional technicians able to provide this needed legal assistance.

This degree program is specifically designed to prepare and provide students with the analytical skills and written abilities necessary to assist attorneys in the practice of law. The technical curriculum goals and objectives emphasize three primary areas:

1. Legal Research, Analysis and Writing
2. Ethics and the Mechanics of Law
3. Integration of Substantive and Procedural Law

The successful paralegal degree candidate will possess a broad educational background with an opportunity to gain specialized skills in specific areas of law. The large curriculum offering also allows practicing paralegals to attend college refresher or new skills development courses.

This program does not prepare students for law school or the practice of law. Please note: Paralegals may not provide legal services directly to the public, except as permitted by law.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Apply the research, analytical skills and college-level writing abilities necessary to assist attorneys in the practice of law.
2. Conduct oneself in an ethical and professional manner when confronted with a law office related conflict scenario.

Career Opportunities

Claim Examiner
Compensation and Benefits Manager
Compliance and Enforcement Inspector
Contract Consultant[1]
Forms and Procedures Specialist
Freelance Paralegal
Labor Relations Specialist[2]
Law Clerk
Legal Aide
Legal Assistant
Legal Research Assistant
Legal Technician
Occupational Safety and Health Worker
Paralegal[1]
Patent Agent
Title Examiner

[1] Bachelor Degree normally recommended.
[2] Bachelor Degree or higher required.

It is recommended that incoming students complete C grade or higher in ESL-2 Accelerated Composition for English as a Second Language or placement into ENGL-C1000 Academic Reading and Writing or equivalent prior to taking any Paralegal Studies classes.

Associate in Science Degree Requirements

Code	Title	Units
BOT-120	Comprehensive Word, Level I	1
BOT-121	Comprehensive Word, Level II	1
Select one of the following:		1
BOT-122	Comprehensive Word, Level III	
BOT-151	Using Microsoft Outlook	
BOT-115	Essential Excel	
BUS-125	Business Law: Legal Environment of Business	3
PARA-100	Introduction to Paralegal Studies	3
PARA-110	Civil Litigation Practice and Procedures	3
PARA-130	Legal Research and Writing	3
PARA-132	Computer Assisted Legal Research (CALR)	3
PARA-135	Bankruptcy Law	3
Select at least six units from the following:		6
PARA-120	Introduction to Administrative Law	
PARA-121	Social Security Disability Law	
PARA-125	Business Organizations	
PARA-140	Introduction to Criminal Law and Procedures	
PARA-145	Estate Planning	
PARA-146	Probate and Administration of Estates	
PARA-150	Family Law (Divorce, Separation, Nullity, and Paternity)	
PARA-151	Family Law (Custody, Visitation, Support)	
PARA-160	Personal Injury	
PARA-170	Workers' Compensation	
PARA-175	Electronic Discovery: Fundamentals and Procedure	
PARA-176	Electronic Discovery: Advanced Practice	
PARA-180	Introduction to Immigration Law	
PARA-250	Internship [1]	
PARA-251	Paralegal Studies Practicum	
Total Units		**27**

Plus General Education Requirements (p. 57)

[1] Student must complete 18 units within the major to be eligible for this course.

Recommended Elective: BUS-128 Business Communication

Note: A minimum of 12 semester units of Legal Specialty courses must be completed at Cuyamaca College.

Real Estate



- Real Estate Associate in Science and Certificate of Achievement (p. 112)
- Broker's License Certificate of Achievement (p. 113)

Real Estate Associate in Science and Certificate of Achievement



In the Real Estate curriculum, special attention is given to the California Department of Real Estate license requirements. This degree program is designed to prepare students for employment in real estate or related fields. It also meets the educational requirements for the California Real Estate Broker's License and helps prepare the student for both the salesperson and broker state examinations. Most real estate classes also meet educational requirements for appraisal licensing.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:
1. Differentiate and describe the essential elements and legal effects of various real estate documents, steps in an escrow, real estate financing and investment, and real estate valuation techniques.
2. Differentiate and describe how to conduct oneself in a professional and ethical manner in any real estate office.

Career Opportunities

Agent
Appraiser[1]
Broker
Builder/Developer
Economist[2]
Escrow Officer/Trust Manager
Investor
Lender/Financial Institution
Property Manager
Salesperson
Title Officer

[1] California Bureau of Real Estate Appraisers License required.
[2] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
RE-190	Real Estate Principles	3
RE-191	Real Estate Practice	3
RE-192	Real Estate Finance	3
RE-193	Real Estate Legal Aspects	3
RE-194	Real Estate Appraisal	3
Select three of the following including one Accounting course:		7 - 11
BUS-110	Introduction to Business [1]	
BUS-120	Financial Accounting	
or BUS-109	Elementary Accounting	
RE-197	Real Estate Economics	
RE-201	Real Estate Property Management	
RE-250	Real Estate Internship [1]	
Elective:		
BUS-125	Business Law: Legal Environment of Business	
Total Units		**22-26**

[1] Non Department of Real Estate Licensing course.

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate of Achievement in Real Estate. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Broker's License Certificate of Achievement

In the Real Estate curriculum, special attention is given to the California Department of Real Estate license requirements. This is an overall comprehensive program that will provide the student with the educational requirements needed to take the examination for a State of California Real Estate Broker license. An applicant for the broker license must have taken the eight (8) real estate courses required for this Broker's License Certificate of Achievement before taking the California State Broker Examination.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Differentiate and describe the essential elements and legal effects of various real estate documents, steps in an escrow, real estate financing and investment, and real estate valuation techniques.
2. Differentiate and describe how to conduct oneself in a professional and ethical manner in any real estate office.

Certificate Requirements

Code	Title	Units
RE-190	Real Estate Principles	3
RE-191	Real Estate Practice	3
RE-192	Real Estate Finance	3
RE-193	Real Estate Legal Aspects	3
RE-194	Real Estate Appraisal	3
RE-201	Real Estate Property Management	3
BUS-109	Elementary Accounting	3-4
or BUS-120	Financial Accounting	
BUS-125	Business Law: Legal Environment of Business	3
Total Units		**24-25**

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate of Achievement in Broker's License. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

University Studies: Business and Economics



The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

Requirements

I. Complete 60 transferable units
   1. CSU or UC transferable units

II. California General Education Transfer Curriculum (Cal-GETC)
   1. Complete 34 units of transfer general education as required for Cal-GETC (see Degree Requirements (p. 57) section of catalog)

III. Choose a minimum of 18 units
   1. Students must complete a minimum of three units in Business, three units in Economics, and three units from the elective category. The remaining nine units may be taken from either category.

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Science in University Studies with an Emphasis in Business and Economics focus on the study of business transaction theory and practice, the operations and strategies of business decisions, legal concepts, and the place of business in the American and global economy as a whole. Students will apply mathematical and quantitative reasoning skills to the discipline's methodologies, as well as evaluate and interpret basic economic principles and theories related to performance and specific economic sectors. Students completing this area may be interested in the following baccalaureate majors: accounting, business, economics, finance, information and decision systems, international business, management, and marketing.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Contribute to an effective and ethical organization.
2. Prepare and analyze financial statements.
3. Use information technology to support effective decision making in the business organization.
4. Analyze markets, economic environments and associated trends at the macro and micro levels.
5. Express and apply quantitative information in order to make sound decisions and solve problems in the business environment.
6. Communicate clearly in the business environment.

Code	Title	Units
Business		
BUS-110	Introduction to Business	3
BUS-120	Financial Accounting	4
BUS-121	Managerial Accounting	4
BUS-125	Business Law: Legal Environment of Business	3
BUS-128	Business Communication	3
Economics		
ECON-110	Economic Issues and Policies	3
ECON-C2001	Principles of Microeconomics	3
ECON-C2002	Principles of Macroeconomics	3
Electives		
CIS-110	Principles of Information Systems	4
MATH-178	Calculus for Business, Social and Behavioral Sciences	4
MATH-C2210	Calculus I: Early Transcendentals	5
STAT-C1000	Introduction to Statistics	4

Culture, People & Ideas



- Ethnic Studies Associate in Arts (p. 115)
- General Studies: Humanities and Fine Arts (p. 115)
- History (p. 117)
- Kumeyaay Studies (p. 119)
- Philosophy for Transfer (AA-T) (p. 120)
- University Studies: Humanities and Fine Arts (p. 121)

Ethnic Studies Associate in Arts



Ethnic Studies is a dynamic academic discipline and community that provides an understanding of the history, culture, and contributions of African Americans, Asian Americans, Latino/a/x Americans, Middle Eastern Americans, and Native Americans. Courses introduce students to the concepts of race and ethnicity, how race and ethnicity intersect with other forms of identity, and the role of power and inequality in the United States. It is an interdisciplinary degree, drawing from the arts, English, history, humanities, Kumeyaay studies, political science, sociology, and others. Ethnic Studies faculty foster community and promote civic engagement and social justice through a variety of panels, presentations, and field trips.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
2. Evaluate and apply subject matter to students' lived experiences and current events.
3. Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
4. Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
5. Research and explore career options and/or obtain experience in a career field.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
ETHN-107/HIST-107	History of Race & Ethnicity in the United States	3
ETHN-114/SOC-114	Introduction to Race & Ethnicity	3
ETHN-120	Introduction to Ethnic Studies	3
List A		
Select four of the following:		12
ETHN-128	Introduction to Chicana/o Studies	
ETHN-130/ HIST-130	U.S. History and Cultures: Native American Perspectives I	
ETHN-131/ HIST-131	U.S. History and Cultures: Native American Perspectives II	
ETHN-145	Introduction to Black Studies	
ETHN-162	Introduction to Asian American Studies	
ETHN-236/ ENGL-236	Chicana/o Literature	
ETHN-238/ ENGL-238	Black Literature	
KUMY-116/ HUM-116	Kumeyaay Arts and Culture I	
KUMY-128/ HIST-128	Kumeyaay History I: Precontact - 1845	
KUMY-129/ HIST-129	Kumeyaay Hist II: 1846 - Present	
KUMY-166/ POSC-166	Introduction to Native American Politics and Policy	
Total Units		**21**

Plus General Education Requirements (p. 57)

General Studies: Humanities and Fine Arts



The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

Requirements

To meet the General Studies degree requirements, a student must complete the following:

I. **AS or AA General Education Requirements** (see Degree Requirements and Transfer Information section)
and

II. **Choose a minimum of 18 units**
Students must complete a minimum of three units in Humanities and three units in Fine Arts. The remaining twelve units may be taken from either category.

The Associate in Arts in General Studies with an Emphasis in Humanities and Fine Arts will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses emphasize the study of cultural, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them through artistic and cultural creation. Students will develop an aesthetic awareness and incorporate these concepts when constructing value judgments.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze the principle elements of representative examples of art, architecture, literature, theater, philosophy, music, dance, film, or other relevant areas of cultural and/or intellectual creativity.
2. Employ the language, concepts and methods of interpretive criticism as applicable to the respective categories of human creativity.
3. When applicable, apply artistic processes and skills as a creative expression, using a variety of media to communicate meaning and intent in original works of art.
4. Analyze how power and privilege operate in society, through categories of race, class, gender, ethnicity, and sexuality.

Code	Title	Units
Humanities		
ARAM-120	Aramaic I	5
ARAM-121	Aramaic II	5
ARAM-220	Aramaic III	5
ARBC-120	Arabic I	5
ARBC-121	Arabic II	5
ARBC-122	Arabic for the Arabic Speaker I	5
ARBC-123	Arabic for the Arabic Speaker II	5
ARBC-130	Arabic Literature and Culture	3
ARBC-145	Arabic Civilizations	3
ARBC-220	Arabic III	5
ARBC-221	Arabic IV	5
ARBC-250	Conversational Arabic I	3
ARBC-251	Conversational Arabic II	3
ARBC-254	Conversational Iraqi Dialect	3
ARBC-256	Conversational Levantine Dialect	3
ART-142	Art of Africa, Oceania and the Americas	3
ART-143	Modern Art	3
ART-145	Contemporary Art	3
ART-146	Asian Art	3
ART-151	Chicanx Art	3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	3
ASL-120	American Sign Language I	4
ASL-121	American Sign Language II	4
ASL-140	Inside Deaf Culture	3
ASL-220	American Sign Language III	4
ASL-221	American Sign Language IV	4
ENGL-C1002	Introduction to Literature	3
ENGL-201	Women, Gender, and Sexuality in Literature	3
ENGL-202	Introduction to Film as Literature	3
ENGL-217	Fantasy and Science Fiction	3
ENGL-221	British Literature I	3
ENGL-222	British Literature II	3
ENGL-231	American Literature I	3
ENGL-232	American Literature II	3
ENGL-236	Chicana/o Literature	3
ENGL-238	Black Literature	3
ENGL-271	World Literature II	3
ETHN-236	Chicana/o Literature	3
ETHN-238	Black Literature	3
HIST-100	Early World History	3
HIST-101	Modern World History	3
HIST-105	Early Western Civilization	3
HIST-106	Modern Western Civilization	3
HIST-114	Comparative History of the Early Americas	3
HIST-115	Comparative History of the Modern Americas	3
HIST-157	History Through Comics	3
HUM-110	Principles of the Humanities	3
HUM-111	Culture, Art & Ideas of the United States	3
HUM-115	Arts & Culture of San Diego	3
HUM-116	Kumeyaay Arts and Culture I	3
HUM-117	Kumeyaay Arts and Culture II	3
HUM-118	Introduction to Kumeyaay Basketry & Pottery	3
HUM-140	Humanities of the Americas	3
HUM-155	World Mythology through the Humanities	3
KUMY-116	Kumeyaay Arts and Culture I	3
KUMY-117	Kumeyaay Arts and Culture II	3
KUMY-118	Introduction to Kumeyaay Basketry & Pottery	3
KUMY-120	Kumeyaay Language I	4
KUMY-121	Kumeyaay Language II	4
KUMY-220	Kumeyaay Language III	4
PHIL-110	A General Introduction to Philosophy	3
PHIL-115	History of Philosophy I: Ancient and Medieval	3
PHIL-117	History of Philosophy II: Modern and Contemporary	3
PHIL-140	Problems in Ethics	3
PHIL-141	Bioethics	3
RELG-120	World Religions	3
RELG-135	Religion in the Middle East	3
RELG-170	Introduction to Christianity	3
RELG-175	Religion, Government and Politics in America	3
SPAN-120	Spanish I	5
SPAN-121	Spanish II	5
SPAN-141	Spanish and Latin American Cultures	3
SPAN-145	Hispanic Civilizations	3
SPAN-220	Spanish III	5
SPAN-221	Spanish IV	5
SPAN-250	Conversational Spanish I	3
SPAN-251	Conversational Spanish II	3
Fine Arts		
ART-100	Art Appreciation	3
ART-104	Artists and Designers Today	3
ART-119	Color Theory	3
ART-120	Two-Dimensional Design	3
ART-121	Painting I	3

ART-124	Drawing I	3
ART-125	Drawing II	3
ART-129	Three-Dimensional Design	3
ART-135	Watercolor I	3
ART-142	Art of Africa, Oceania and the Americas	3
ART-143	Modern Art	3
ART-145	Contemporary Art	3
ART-146	Asian Art	3
ART-151	Chicanx Art	3
ART-184	Introduction to Animation	3
ART-210	Introduction to Printmaking	3
ART-211	Intermediate Printmaking	3
ART-220	Painting II	3
ART-221	Painting III	3
ART-222	Painting IV	3
ART-230	Figure Drawing I	3
ART-231	Figure Drawing II	3
ART-232	Figure Drawing III	3
ART-233	Figure Drawing IV	3
ART-235	Watercolor II	3
ART-236	Watercolor III	3
ART-240	Portraiture and Character Design	3
ART-241	Illustration I	3
ART-242	Illustration II	3
ART-243	Perspective Drawing	3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	3
MUS-110	Great Music Listening	3
MUS-111	History of Jazz	3
MUS-115	History of Rock Music	3
MUS-116	Introduction to World Music	3
MUS-117	Introduction to Music History and Literature	3
MUS-123	History of Hip Hop Culture	3
THTR-110	Introduction to the Theatre	3

History

- History for Transfer (AA-T) (p. 117)
- History Associate in Arts (p. 118)

Associate Degree for Transfer℠

History for Transfer (AA-T)

This degree program is useful for students preparing for careers in education, the law and legal field, journalism, government service, political science, museums and archives, consulting, and research. The history program offers a diverse transfer curriculum and is committed to equity-minded teaching in an atmosphere of academic excellence. History course offerings focus on global cultures, historically-underrepresented groups in the United States, and the development of American Institutions. History courses help students develop and refine research, writing, and interpretive skills that are essential in navigating both society and their careers. History faculty create a vibrant intellectual campus culture and promote civic engagement through a variety of panels, presentations, and field trips.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
2. Evaluate and apply subject matter to students' lived experiences and current events.
3. Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
4. Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
5. Research and explore career options and/or obtain experience in a career field.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
HIST-C1001	United States History to 1877	3
HIST-C1002	United States History since 1865	3
List A		
Select six units from the following:		6
HIST-100	Early World History	

or HIST-105	Early Western Civilization	
HIST-101	Modern World History	
or HIST-106	Modern Western Civilization	
List B		
Select one course from each group:		
Group 1: Select one of the follow courses:		3
HIST-107/ ETHN-107	History of Race & Ethnicity in the United States	
HIST-118	U.S. History: Chicano/Chicana Perspectives I	
HIST-119	U.S. History: Chicano/Chicana Perspectives II	
HIST-128/ KUMY-128	Kumeyaay History I: Precontact - 1845	
HIST-129/ KUMY-129	Kumeyaay History II: 1846 - Present	
HIST-130/ ETHN-130	U.S. History and Cultures: Native American Perspectives I	
HIST-131/ ETHN-131	U.S. History and Cultures: Native American Perspectives II	
HIST-180	U.S. History: Black Perspectives I	
HIST-181	U.S. History: Black Perspectives II	
or if not selected above:		
HIST-100	Early World History (if not selected above)	
or HIST-101	Modern World History	
Group 2: Select one of the following courses:		3
HIST-114	Comparative History of the Early Americas	
HIST-115	Comparative History of the Modern Americas	
HIST-122	Women in Early American History	
HIST-123	Women in Modern American History	
HIST-124	History of California	
HIST-148	The Modern Middle East	
HUM-111	Culture, Art & Ideas of the United States	
HUM-115	Arts & Culture of San Diego	
HUM-116	Kumeyaay Arts and Culture I	
KUMY-166/ POSC-166	Introduction to Native American Politics and Policy	
POSC-140	Introduction to California Governments and Politics	
Any course from Group 1 not selected		
Units for the Major		**18**
Double-Counted Units		6-12
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		14-20
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into History B.A.

History Associate in Arts



This degree program is useful for students preparing for careers in education and teaching, the law and legal field, journalism, government service, political science, museums and archives, consulting, and research. The history program offers a diverse transfer curriculum and is committed to equity-minded teaching in an atmosphere of academic excellence. History course offerings focus on global cultures, historically underrepresented groups in the United States, and the development of American Institutions. History courses help students develop and refine research, writing, and interpretive skills that are essential in navigating both society and their careers. History faculty create a vibrant intellectual campus culture and promote civic engagement through a variety of panels, presentations, and field trips.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
2. Evaluate and apply subject matter to students' lived experiences and current events.
3. Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
4. Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
5. Research and explore career options and/or obtain experience in a career field.

Career Opportunities

Anthropologist[1]
Archaeologist[1]
Archivist[1]
Attorney
Editor[1]
Education Administrator[1]
History Professor/Historian[1]
Judicial Law Clerk[1]
Law Professor[1]
Legislative Assistant[1]
Legal Arbitrator, Mediator, and Conciliator[1]
Museum Curator[1]
Political Science Professor[1]
Politician
Research Historian[1]
Reporter, Correspondent[1]
Secondary School (K-12) Teacher[1]
Social Worker[1]
Writer, Author, Editor[1]

[1] Bachelor Degree (B.A.) or higher required.

Associate in Arts Degree Requirements

Code	Title	Units
Select twelve units from any two of the following sequences:		12
HIST-100 & HIST-101	Early World History and Modern World History	
HIST-105 & HIST-106	Early Western Civilization and Modern Western Civilization	
HIST-C1001 & HIST-C1002	United States History to 1877 and United States History since 1865	
List A. Select one of the following:		3
HIST-107/ ETHN-107	History of Race & Ethnicity in the United States	
HIST-118	U.S. History: Chicano/Chicana Perspectives I	
HIST-119	U.S. History: Chicano/Chicana Perspectives II	
HIST-128/ KUMY-128	Kumeyaay History I: Precontact - 1845	
HIST-129/ KUMY-129	Kumeyaay History II: 1846 - Present	
HIST-130/ ETHN-130	U.S. History and Cultures: Native American Perspectives I	
HIST-131/ ETHN-131	U.S. History and Cultures: Native American Perspectives II	
HIST-180	U.S. History: Black Perspectives I	
HIST-181	U.S. History: Black Perspectives II	
List B. Select one of the following:		3
HIST-114	Comparative History of the Early Americas	
HIST-115	Comparative History of the Modern Americas	
HIST-122	Women in Early American History	
HIST-123	Women in Modern American History	
HIST-124	History of California	
HIST-148	The Modern Middle East	
HUM-111	Culture, Art & Ideas of the United States	
HUM-115	Arts & Culture of San Diego	
KUMY-116/ HUM-116	Kumeyaay Arts and Culture I	
KUMY-166/ POSC-166	Introduction to Native American Politics and Policy	
POSC-140	Introduction to California Governments and Politics	
Any course from List A not selected		
Total Units		**18**

Plus General Education Requirements (p. 57)

Kumeyaay Studies

- Kumeyaay Studies Associate in Arts (p. 119)
- Kumeyaay Studies Certificate of Achievement (p. 120)

Kumeyaay Studies Associate in Arts

The Associate in Arts program in Kumeyaay Studies is designed to provide an understanding of Kumeyaay history, culture and heritage. It is a multi-disciplinary degree, drawing from the sciences, humanities, world languages and history departments. Through specific coursework that encompasses on-site learning experiences, students will learn about the Kumeyaay Nation of San Diego's East County region.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
2. Evaluate and apply subject matter to students' lived experiences and current events.
3. Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
4. Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
5. Research and explore career options and/or obtain experience in a career field.

Associate in Arts Degree Requirements

Code	Title	Units
KUMY-120	Kumeyaay Language I	4
KUMY-121	Kumeyaay Language II	4
KUMY-128/HIST-128	Kumeyaay History I: Precontact - 1845	3
KUMY-129/HIST-129	Kumeyaay Hist II: 1846 - Present	3
List A. Select Four (4) Units:		4
KUMY-133/ BIO-133	Ethnoecology	
KUMY-134/ BIO-134	Ethnobotany	
KUMY-135/ BIO-135	Ethnobotany/Ethnoecology Lab	
List B. Select two of the following:		6
KUMY-116/ HUM-116	Kumeyaay Arts and Culture I	
KUMY-117/ HUM-117	Kumeyaay Arts and Culture II	
KUMY-118/ HUM-118	Introduction to Kumeyaay Basketry & Pottery	

List C. Select one of the following:		3-4
KUMY-150	Introduction to Cultural Resource Management	
KUMY-166/ POSC-166	Introduction to Native American Politics and Policy	
KUMY-170/ SW-170	Kumeyaay Conflict Resolution	
KUMY-220	Kumeyaay Language III	
One any course from List A or B not selected		
Total Units		**27-28**

Plus General Education Requirements (p. 57)

Kumeyaay Studies Certificate of Achievement

The Certificate of Achievement in Kumeyaay Studies is designed to provide an understanding of Kumeyaay language, history, culture, heritage, and land management. Kumeyaay Studies is an interdisciplinary program, drawing from anthropology, biology, history, humanities, Kumeyaay language, and political science. Students will learn about the Kumeyaay Nation of San Diego's East County region through specialized, interactive coursework and on-site learning experiences.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
2. Evaluate and apply subject matter to students' lived experiences and current events.
3. Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
4. Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
5. Research and explore career options and/or obtain experience in a career field.

Certificate Requirements

Code	Title	Units
KUMY-120	Kumeyaay Language I	4
KUMY-128/HIST-128	Kumeyaay History I: Precontact - 1845	3
Select one of the following:		3
KUMY-116/ HUM-116	Kumeyaay Arts and Culture I	
KUMY-117/ HUM-117	Kumeyaay Arts and Culture II	
Select one of the following:		3
KUMY-133/ BIO-133	Ethnoecology	
KUMY-134/ BIO-134	Ethnobotany	
Select one of the following:		3-4
KUMY-121	Kumeyaay Language II	
KUMY-129/ HIST-129	Kumeyaay Hist II: 1846 - Present	
KUMY-150	Introduction to Cultural Resource Management	
KUMY-166/ POSC-166	Introduction to Native American Politics and Policy	
KUMY-220	Kumeyaay Language III	
or any course not taken above		
Total Units		**16-17**

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Kumeyaay Studies. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Associate Degree for Transfer℠

Philosophy for Transfer (AA-T)

The Associate in Arts in Philosophy for Transfer (AA-T in Philosophy) deals with fundamental issues that have long haunted thinkers for many centuries. The major explores and seeks to understand values and the nature of reality by examining and questioning existence and experience. The degree prepares students for undergraduate study in philosophy.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Identify and discuss philosophical questions of universal concern including but not limited to, What counts as knowledge? Is there meaning to life? Does free will exist? Why should I be moral?, with an appreciation for how these questions have been approached throughout various historical and cultural contexts.
2. Implement critical thinking techniques to enhance reading and writing skills, and engage effectively in issues of societal importance.
3. Demonstrate correct use of terminology and appropriate argumentation when engaged in philosophical discussions.

4. Evaluate and apply various philosophical insights to students' lived experiences and current events.
5. Research and explore career options and opportunities for further study.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
Select two of the following:		6
PHIL-110	A General Introduction to Philosophy	
or PHIL-140	Problems in Ethics	
and		
PHIL-130	Logic	
List A		
Select one of the following:		3
Any course from Core not used		
PHIL-115	History of Philosophy I: Ancient and Medieval	
PHIL-117	History of Philosophy II: Modern and Contemporary	
List B		
Select two of the following:		6
Any course from List A not used		
HIST-105	Early Western Civilization	
HIST-106	Modern Western Civilization	
RELG-120	World Religions	
List C		
Select one of the following:		3
Any course from List A or B not used		
PHIL-125	Critical Thinking and Philosophical Composition	
Units for the Major		**18**
Double-Counted Units		9
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		17
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into Philosophy B.A.

University Studies: Humanities and Fine Arts



The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

Requirements

I. Complete 60 transferable units
   1. CSU or UC transferable units

II. California General Education Transfer Curriculum (Cal-GETC)
   1. Complete 34 units of transfer general education as required for Cal-GETC (see Degree Requirements (p. 57) section of catalog)

III. Choose a minimum of 18 units
   1. Students must complete a minimum of three units in Humanities, and three units in Fine Arts. The remaining twelve units may be taken from either category.

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Arts in University Studies with an Emphasis in Humanities and Fine Arts focus on the study of cultural, humanistic activities, and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them through artistic and cultural creation. Students will develop an aesthetic awareness and incorporate these concepts when constructing value judgments. Students completing this area may be interested in the following baccalaureate majors: art, humanities, music, philosophy, religious studies, and theatre arts.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze the principle elements of representative examples of art, architecture, literature, theater, philosophy, music, dance, film, or other relevant areas of cultural and/or intellectual creativity.
2. Employ the language, concepts and methods of interpretive criticism as applicable to the respective categories of human creativity.
3. When applicable, apply artistic processes and skills as a creative expression, using a variety of media to communicate meaning and intent in original works of art.

4. Analyze how power and privilege operate in society, through categories of race, class, gender, ethnicity, and sexuality.

Code	Title	Units
Humanities		
ARAM-120	Aramaic I	5
ARAM-121	Aramaic II	5
ARAM-220	Aramaic III	5
ARBC-120	Arabic I	5
ARBC-121	Arabic II	5
ARBC-122	Arabic for the Arabic Speaker I	5
ARBC-123	Arabic for the Arabic Speaker II	5
ARBC-130	Arabic Literature and Culture	3
ARBC-145	Arabic Civilizations	3
ARBC-220	Arabic III	5
ARBC-221	Arabic IV	5
ARBC-254	Conversational Iraqi Dialect	3
ARBC-256	Conversational Levantine Dialect	3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	3
ART-142	Art of Africa, Oceania and the Americas	3
ART-143	Modern Art	3
ART-145	Contemporary Art	3
ART-146	Asian Art	3
ART-151	Chicanx Art	3
ASL-120	American Sign Language I	4
ASL-121	American Sign Language II	4
ASL-140	Inside Deaf Culture	3
ASL-220	American Sign Language III	4
ASL-221	American Sign Language IV	4
ENGL-C1002	Introduction to Literature	3
ENGL-201	Women, Gender, and Sexuality in Literature	3
ENGL-202	Introduction to Film as Literature	3
ENGL-217	Fantasy and Science Fiction	3
ENGL-221	British Literature I	3
ENGL-222	British Literature II	3
ENGL-231	American Literature I	3
ENGL-232	American Literature II	3
ENGL-236	Chicana/o Literature	3
ENGL-238	Black Literature	3
ENGL-271	World Literature II	3
ETHN-236	Chicana/o Literature	3
ETHN-238	Black Literature	3
HIST-100	Early World History	3
HIST-101	Modern World History	3
HIST-105	Early Western Civilization	3
HIST-106	Modern Western Civilization	3
HIST-114	Comparative History of the Early Americas	3
HIST-115	Comparative History of the Modern Americas	3
HIST-157	History Through Comics	3
HUM-110	Principles of the Humanities	3
HUM-111	Culture, Art & Ideas of the United States	3
HUM-115	Arts & Culture of San Diego	3
HUM-116	Kumeyaay Arts and Culture I	3
HUM-117	Kumeyaay Arts and Culture II	3
HUM-118	Introduction to Kumeyaay Basketry & Pottery	3
HUM-140	Humanities of the Americas	3
HUM-155	World Mythology through the Humanities	3
KUMY-116	Kumeyaay Arts and Culture I	3
KUMY-117	Kumeyaay Arts and Culture II	3
KUMY-118	Introduction to Kumeyaay Basketry & Pottery	3
KUMY-120	Kumeyaay Language I	4
KUMY-121	Kumeyaay Language II	4
KUMY-220	Kumeyaay Language III	4
PHIL-110	A General Introduction to Philosophy	3
PHIL-115	History of Philosophy I: Ancient and Medieval	3
PHIL-117	History of Philosophy II: Modern and Contemporary	3
PHIL-140	Problems in Ethics	3
PHIL-141	Bioethics	3
RELG-120	World Religions	3
RELG-135	Religion in the Middle East	3
RELG-170	Introduction to Christianity	3
RELG-175	Religion, Government and Politics in America	3
SPAN-120	Spanish I	5
SPAN-121	Spanish II	5
SPAN-141	Spanish and Latin American Cultures	3
SPAN-145	Hispanic Civilizations	3
SPAN-220	Spanish III	5
SPAN-221	Spanish IV	5
SPAN-250	Conversational Spanish I	3
SPAN-251	Conversational Spanish II	3
Fine Arts		
ART-100	Art Appreciation	3
ART-104	Artists and Designers Today	3
ART-119	Color Theory	3
ART-120	Two-Dimensional Design	3
ART-124	Drawing I	3
ART-125	Drawing II	3
ART-129	Three-Dimensional Design	3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	3
ART-142	Art of Africa, Oceania and the Americas	3
ART-143	Modern Art	3
ART-145	Contemporary Art	3
ART-146	Asian Art	3
ART-151	Chicanx Art	3

ART-184	Introduction to Animation	3
ART-210	Introduction to Printmaking	3
ART-211	Intermediate Printmaking	3
ART-241	Illustration I	3
ART-242	Illustration II	3
ART-243	Perspective Drawing	3
MUS-110	Great Music Listening	3
MUS-111	History of Jazz	3
MUS-115	History of Rock Music	3
MUS-116	Introduction to World Music	3
MUS-117	Introduction to Music History and Literature	3
MUS-123	History of Hip Hop Culture	3
THTR-110	Introduction to the Theatre	3

Environmental & Applied Technology

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- CADD Technology (p. 134)
- Center for Water Studies (p. 136)
- Computer and Information Science (p. 146)
- Computer Science (p. 152)
- Environmental Health and Safety Management (p. 153)
- Ornamental Horticulture (p. 157)
- Surveying (p. 165)

Automotive Technology

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- Automotive Technology Drivetrain Specialist Associate in Science and Certificate of Achievement (p. 126)
- Automotive Technology Electronics and Electric Vehicle Specialist Associate in Science and Certificate of Achievement (p. 127)
- Automotive Technology Engine Performance and Smog Technician Associate in Science and Certificate of Achievement (p. 128)
- Automotive Technology Engine Repair Specialist Associate in Science and Certificate of Achievement (p. 129)
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- Automotive Technology – Automotive Service Councils of California ASCCA Associate in Science and Certificate of Achievement (p. 130)
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- Automotive Technology – General Motors ASEP Associate in Science and Certificate of Achievement (p. 132)
- Automotive Technology – Maintenance and Light Repair Certificate of Achievement (p. 133)

Automotive Technology Associate in Science and Certificate of Achievement

The Automotive Technology degree has nine ASE core competencies for students without a sponsoring business. There is no work experience requirement. All laboratory courses are taught on campus using state of the art vehicles and equipment. The curriculum provides the necessary skills needed to join and advance in the automotive field. Students may further their education and skills by adding a specialization to this degree.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe knowledge of applied science used in various automotive system operations and interrelationships.
2. Diagnose and repair automotive-engineered system problems.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
AUTO-099	Introduction to Automotive Technology	3
AUTO-100L	Introduction to Automotive Maintenance and Light Repair Laboratory	1
AUTO-111	Engine Diagnosis and Repair	2
AUTO-111L	Engine Diagnosis and Repair Laboratory	1
AUTO-111T	Engine Diagnosis and Repair Assessment Test Out	0.5
AUTO-121	Automatic Transmission Theory and Operation	2
AUTO-121L	Automatic Transmission Theory and Operation Laboratory	1
AUTO-121T	Automatic Transmission Theory and Operation Assessment Test Out	0.5
AUTO-131	Manual Transmission and Transaxle Repair	1
AUTO-131L	Manual Transmission and Transaxle Repair Laboratory	1
AUTO-131T	Manual Transmission and Transaxle Repair Assessment Test Out	0.5
AUTO-132	Differential and 4WD Systems Diagnosis and Service	1
AUTO-132L	Differential and 4WD Systems Laboratory	1
AUTO-132T	Differential and 4WD Systems Assessment Test Out	0.5
AUTO-143	Steering and Suspension Diagnosis and Repair	1
AUTO-143L	Steering and Suspension Diagnosis and Repair Laboratory	1
AUTO-143T	Steering and Suspension Diagnosis and Repair Assessment Test Out	0.5
AUTO-144	Noise, Vibration, and Harshness	0.5
AUTO-144L	Noise, Vibration, and Harshness Laboratory	1
AUTO-144T	Noise, Vibration, and Harshness Assessment Test Out	0.5
AUTO-151	Brake System Diagnosis and Repair	2

AUTO-151L	Brake System Diagnosis and Repair Laboratory	1
AUTO-151T	Brake System Diagnosis and Repair Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-162L	Electronics Diagnosis and Repair Laboratory	1
AUTO-162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO-171	Climate Control System Diagnosis and Repair	1
AUTO-171L	Climate Control System Diagnosis and Repair Laboratory	1
AUTO-171T	Climate Control System Diagnosis and Repair Assessment Test Out	0.5
AUTO-181	Engine Performance I Ignition and Fuel Systems	2
AUTO-181L	Engine Performance I Ignition and Fuel Systems Laboratory	1
AUTO-181T	Engine Performance I Ignition and Fuel Systems Assessment Test Out	0.5
AUTO-183	Engine Performance II Intake Exhaust and Emission Systems	2
AUTO-183L	Engine Performance II Intake Exhaust Emission Systems Laboratory	1
AUTO-183T	Engine Performance II Intake Exhaust Emission Systems Assessment Test Out	0.5
AUTO-194	Diesel Engine Performance and Diagnosis	2
AUTO-194L	Diesel Engine Performance and Diagnosis Laboratory	1
AUTO-194T	Diesel Engine Performance and Diagnosis Assessment Test Out	0.5
Total Units		**44**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Automotive Technology. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Automotive Technology Chassis Specialist Associate in Science and Certificate of Achievement

Many businesses need technicians with very specific skills to diagnose and repair complex problems of brakes, suspension, and dynamic vehicle driving systems. This specialized degree includes antilock braking, electronic suspension, and alignment training. Successful students will qualify to take the California Bureau of Automotive Licensing exams for Brake and Lamp licensing. Work experience is a requirement for this major, which ensures student competency and success. All students are required to complete a digital portfolio resume used for assessment and practicum. Students completing all courses and general education courses will receive an Associate in Science during Commencement. Students completing all automotive course requirements will receive a Certificate of Achievement during Commencement.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe and demonstrate knowledge of various automotive brake, steering, and suspension systems.
2. Diagnose and repair automotive chassis systems by performing necessary actions.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
AUTO-131	Manual Transmission and Transaxle Repair	1
AUTO-131L	Manual Transmission and Transaxle Repair Laboratory	1
AUTO-131T	Manual Transmission and Transaxle Repair Assessment Test Out	0.5
AUTO-132	Differential and 4WD Systems Diagnosis and Service	1
AUTO-132L	Differential and 4WD Systems Laboratory	1
AUTO-132T	Differential and 4WD Systems Assessment Test Out	0.5
AUTO-143	Steering and Suspension Diagnosis and Repair	1
AUTO-143L	Steering and Suspension Diagnosis and Repair Laboratory	1
AUTO-143T	Steering and Suspension Diagnosis and Repair Assessment Test Out	0.5
AUTO-144	Noise, Vibration, and Harshness	0.5
AUTO-144L	Noise, Vibration, and Harshness Laboratory	1
AUTO-144T	Noise, Vibration, and Harshness Assessment Test Out	0.5
AUTO-151	Brake System Diagnosis and Repair	2
AUTO-151L	Brake System Diagnosis and Repair Laboratory	1
AUTO-151T	Brake System Diagnosis and Repair Assessment Test Out	0.5
AUTO-153	Advanced Brake System Diagnosis and Repair	2
AUTO-153L	Advanced Brake System Diagnosis and Repair Laboratory	1

AUTO-153T	Advanced Brake System Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-162L	Electronics Diagnosis and Repair Laboratory	1
AUTO-162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO-212	Automotive Work Experience [1]	12
Total Units		**35.5**

Plus General Education Requirements (p. 57)

[1] Must be taken for a total of 12 units.

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Automotive Technology Chassis Specialist. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Automotive Technology Drivetrain Specialist Associate in Science and Certificate of Achievement

Many businesses need technicians with very specific skills to diagnose and repair complex problems of transmissions, transaxles, and differential vehicle power systems. This specialized program includes electronic controlled valve bodies, electronic differentials, four wheel drive, and all-wheel drive systems. Successful students will obtain a highly desired specialty set of skills. Work experience is a requirement for this major, which ensures student competency and success. All students are required to complete a digital portfolio resume used for assessment and practicum. Students completing all courses and general education courses will receive an Associate in Science during Commencement. Students completing all automotive course requirements will receive a Certificate of Achievement during Commencement.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe and demonstrate knowledge of various automotive automatic, manual, electric and electronic drivetrain systems.
2. Diagnose and repair automotive power transmission systems by performing necessary actions.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
AUTO-121	Automatic Transmission Theory and Operation	2
AUTO-121L	Automatic Transmission Theory and Operation Laboratory	1
AUTO-121T	Automatic Transmission Theory and Operation Assessment Test Out	0.5
AUTO-126	Automatic Transmission Diagnosis and Testing	2
AUTO-126L	Automatic Transmission Diagnosis and Testing Laboratory	1
AUTO-126T	Automatic Transmission Diagnosis and Testing Assessment Test Out	0.5
AUTO-131	Manual Transmission and Transaxle Repair	1
AUTO-131L	Manual Transmission and Transaxle Repair Laboratory	1
AUTO-131T	Manual Transmission and Transaxle Repair Assessment Test Out	0.5
AUTO-132	Differential and 4WD Systems Diagnosis and Service	1
AUTO-132L	Differential and 4WD Systems Laboratory	1
AUTO-132T	Differential and 4WD Systems Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-162L	Electronics Diagnosis and Repair Laboratory	1
AUTO-162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO-263	Advanced Electronics	1
AUTO-263L	Advanced Electronics Laboratory	1
AUTO-263T	Advanced Electronics Assessment Test Out	0.5
AUTO-264	Hybrid and Electric Vehicle Operation and Diagnosis	1
AUTO-264L	Hybrid and Electric Vehicle Operation and Diagnosis Laboratory	1
AUTO-264T	Hybrid and Electric Vehicle Operation and Diagnosis Assessment Test Out	0.5
AUTO-212	Automotive Work Experience [1]	12
Total Units		**36**

Plus General Education Requirements (p. 57)

[1] Must be taken for a total of 12 units.

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Automotive Technology Drivetrain Specialist. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Automotive Technology Electronics and Electric Vehicle Specialist Associate in Science and Certificate of Achievement



Many businesses need technicians with very specific skills to diagnose and repair complex problems in the Electric Vehicle and Hybrid Vehicle specialty. The high voltage battery and vehicle power systems require extremely fast computer multiplexing. This specialized degree includes electronic controlled autonomous drive systems, electronic motor drive, four wheel motor drive, and hybrid drive systems. Successful students will obtain a highly desired specialty set of skills. Work experience is a requirement for this major, which ensures student competency and success. All students are required to complete a digital portfolio resume used for assessment and practicum. Students completing all courses and general education courses will receive an Associate in Science during Commencement. Students completing all automotive course requirements will receive a Certificate of Achievement during Commencement.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe and demonstrate knowledge of various electrical, electronic, hybrid, and electric vehicle systems.
2. Diagnose and repair advanced electronic automotive systems by performing necessary actions.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
AUTO-121	Automatic Transmission Theory and Operation	2
AUTO-121L	Automatic Transmission Theory and Operation Laboratory	1
AUTO-121T	Automatic Transmission Theory and Operation Assessment Test Out	0.5
AUTO-132	Differential and 4WD Systems Diagnosis and Service	1
AUTO-132L	Differential and 4WD Systems Laboratory	1
AUTO-132T	Differential and 4WD Systems Assessment Test Out	0.5
AUTO-143	Steering and Suspension Diagnosis and Repair	1
AUTO-143L	Steering and Suspension Diagnosis and Repair Laboratory	1
AUTO-143T	Steering and Suspension Diagnosis and Repair Assessment Test Out	0.5
AUTO-153	Advanced Brake System Diagnosis and Repair	2
AUTO-153L	Advanced Brake System Diagnosis and Repair Laboratory	1
AUTO-153T	Advanced Brake System Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-162L	Electronics Diagnosis and Repair Laboratory	1
AUTO-162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO-171	Climate Control System Diagnosis and Repair	1
AUTO-171L	Climate Control System Diagnosis and Repair Laboratory	1
AUTO-171T	Climate Control System Diagnosis and Repair Assessment Test Out	0.5
AUTO-181	Engine Performance I Ignition and Fuel Systems	2
AUTO-181L	Engine Performance I Ignition and Fuel Systems Laboratory	1
AUTO-181T	Engine Performance I Ignition and Fuel Systems Assessment Test Out	0.5
AUTO-183	Engine Performance II Intake Exhaust and Emission Systems	2
AUTO-183L	Engine Performance II Intake Exhaust Emission Systems Laboratory	1
AUTO-183T	Engine Performance II Intake Exhaust Emission Systems Assessment Test Out	0.5
AUTO-263	Advanced Electronics	1
AUTO-263L	Advanced Electronics Laboratory	1
AUTO-263T	Advanced Electronics Assessment Test Out	0.5
AUTO-264	Hybrid and Electric Vehicle Operation and Diagnosis	1
AUTO-264L	Hybrid and Electric Vehicle Operation and Diagnosis Laboratory	1
AUTO-264T	Hybrid and Electric Vehicle Operation and Diagnosis Assessment Test Out	0.5
AUTO-283	Advanced Engine Performance	1
AUTO-283L	Advanced Engine Performance Laboratory	1
AUTO-283T	Advanced Engine Performance Assessment Test Out	0.5
AUTO-212	Automotive Work Experience [1]	12

ET-110	Introduction to Electricity and Electronics	4
Total Units		**52**

Plus General Education Requirements (p. 57)

[1] Must be taken for a total of 12 units.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Automotive Technology Electronics and Electric Vehicle Specialist. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Automotive Technology Engine Performance and Smog Technician Associate in Science and Certificate of Achievement

Many businesses need technicians with very specific skills to repair emission system failures or complex problems relating to the fuel, ignition, and/or engine systems. This specialized degree includes hybrid and electric vehicle, and gasoline and diesel fuel systems training. Successful students will qualify to take the California Bureau of Automotive Licensing exams for Smog Inspector and Repair licensing. Work experience is a requirement for this major, which ensures student competency and success. All students are required to complete a digital portfolio resume used for assessment and practicum. Students completing all courses and general education courses will receive an Associates in Science during Commencement. Students completing all automotive course requirements will receive a Certificate of Achievement during Commencement.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe and demonstrate knowledge of various automotive emission control systems.
2. Diagnose and repair automotive emission control systems by performing necessary actions.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
AUTO-111	Engine Diagnosis and Repair	2
AUTO-111L	Engine Diagnosis and Repair Laboratory	1
AUTO-111T	Engine Diagnosis and Repair Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-162L	Electronics Diagnosis and Repair Laboratory	1
AUTO-162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO-181	Engine Performance I Ignition and Fuel Systems	2
AUTO-181L	Engine Performance I Ignition and Fuel Systems Laboratory	1
AUTO-181T	Engine Performance I Ignition and Fuel Systems Assessment Test Out	0.5
AUTO-183	Engine Performance II Intake Exhaust and Emission Systems	2
AUTO-183L	Engine Performance II Intake Exhaust Emission Systems Laboratory	1
AUTO-183T	Engine Performance II Intake Exhaust Emission Systems Assessment Test Out	0.5
AUTO-194	Diesel Engine Performance and Diagnosis	2
AUTO-194L	Diesel Engine Performance and Diagnosis Laboratory	1
AUTO-194T	Diesel Engine Performance and Diagnosis Assessment Test Out	0.5
AUTO-263	Advanced Electronics	1
AUTO-263L	Advanced Electronics Laboratory	1
AUTO-263T	Advanced Electronics Assessment Test Out	0.5
AUTO-264	Hybrid and Electric Vehicle Operation and Diagnosis	1
AUTO-264L	Hybrid and Electric Vehicle Operation and Diagnosis Laboratory	1
AUTO-264T	Hybrid and Electric Vehicle Operation and Diagnosis Assessment Test Out	0.5
AUTO-283	Advanced Engine Performance	1
AUTO-283L	Advanced Engine Performance Laboratory	1
AUTO-283T	Advanced Engine Performance Assessment Test Out	0.5
AUTO-284	Level I Inspector Training Emission Control License	2
AUTO-284L	Level I Inspector Training Emission Control License Laboratory	1
AUTO-284T	Level I Inspector Training Emission Control License Assessment Test Out	0.5
AUTO-285	Level II Inspector Training Emission Control License	1
AUTO-285L	Level II Inspector Training Emission Control License Laboratory	1
AUTO-285T	Level II Inspector Training Emission Control License Assessment Test Out	0.5
AUTO-286T	Bar Smog Check Repair Technician Update Training Assessment Test Out	0.5
AUTO-212	Automotive Work Experience [1]	12
Total Units		**47**

Plus General Education Requirements (p. 57)

[1] Must be taken for a total of 12 units.

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Automotive Technology Engine Performance and Smog Technician. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Automotive Technology Engine Repair Specialist Associate in Science and Certificate of Achievement

Many businesses need technicians with very specific skills to diagnose and repair complex problems in the diesel and gasoline engine specialty. Engines have very complex electro mechanical controls, and use hydraulic oil systems. This specialized degree includes variable cam timing, in-vehicle engine repair, diagnosis strategies, and related systems. Successful students will obtain a highly desired specialty set of skills. Work experience is a requirement for this major, which ensures student competency and success. All students are required to complete a digital portfolio resume used for assessment and practicum. Students completing all courses and general education courses will receive an Associates of Science during Commencement. Students completing all automotive course requirements will receive a Certificate of Achievement during Commencement.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe and demonstrate knowledge of various mechanical, electronic, and hydraulic, vehicle engine systems.
2. Diagnose and repair advanced diesel and gasoline automotive engine systems by performing necessary actions.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
AUTO-111	Engine Diagnosis and Repair	2
AUTO-111L	Engine Diagnosis and Repair Laboratory	1
AUTO-111T	Engine Diagnosis and Repair Assessment Test Out	0.5
AUTO-144	Noise, Vibration, and Harshness	0.5
AUTO-144L	Noise, Vibration, and Harshness Laboratory	1
AUTO-144T	Noise, Vibration, and Harshness Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-162L	Electronics Diagnosis and Repair Laboratory	1
AUTO-162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO-171	Climate Control System Diagnosis and Repair	1
AUTO-171L	Climate Control System Diagnosis and Repair Laboratory	1
AUTO-171T	Climate Control System Diagnosis and Repair Assessment Test Out	0.5
AUTO-181	Engine Performance I Ignition and Fuel Systems	2
AUTO-181L	Engine Performance I Ignition and Fuel Systems Laboratory	1
AUTO-181T	Engine Performance I Ignition and Fuel Systems Assessment Test Out	0.5
AUTO-183	Engine Performance II Intake Exhaust and Emission Systems	2
AUTO-183L	Engine Performance II Intake Exhaust Emission Systems Laboratory	1
AUTO-183T	Engine Performance II Intake Exhaust Emission Systems Assessment Test Out	0.5
AUTO-194	Diesel Engine Performance and Diagnosis	2
AUTO-194L	Diesel Engine Performance and Diagnosis Laboratory	1
AUTO-194T	Diesel Engine Performance and Diagnosis Assessment Test Out	0.5
AUTO-212	Automotive Work Experience [1]	12
Total Units		**37.5**

Plus General Education Requirements (p. 57)

[1] Must be taken for a total of 12 units.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Automotive Technology Engine Repair Specialist. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Automotive Technology Service Management Associate in Science and Certificate of Achievement

Many businesses need technicians with very specific skills to communicate with customers, management, and technicians about

complex problems in all vehicle specialties. This specialized program emphasizes effective and equitable communication skills, and additionally includes specific compliance standards training and business management training unique to the automotive industry. Successful students will obtain highly desired skills in professional communication and industry compliance. Work experience is a requirement for this major, which ensures student competency and success. All students are required to complete a digital portfolio resume used for assessment and practicum. Students completing all courses and general education courses will receive an Associates of Science during Commencement. Students completing all automotive course requirements will receive a Certificate of Achievement during Commencement.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe and demonstrate knowledge of various automotive systems.
2. Apply knowledge of the repair systems process by describing necessary actions by order of priority to a customer, manager, or technician.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
AUTO-111	Engine Diagnosis and Repair	2
AUTO-121	Automatic Transmission Theory and Operation	2
AUTO-143	Steering and Suspension Diagnosis and Repair	1
AUTO-144	Noise, Vibration, and Harshness	0.5
AUTO-151	Brake System Diagnosis and Repair	2
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-171	Climate Control System Diagnosis and Repair	1
AUTO-181	Engine Performance I Ignition and Fuel Systems	2
AUTO-183	Engine Performance II Intake Exhaust and Emission Systems	2
AUTO-194	Diesel Engine Performance and Diagnosis	2
AUTO-210	Service Management	3
AUTO-211	Automotive Customer Service	2
AUTO-212	Automotive Work Experience [1]	12
Total Units		**35.5**

Plus General Education Requirements (p. 57)

[1] Must be taken for a total of 12 units.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Automotive Technology Service Management. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Automotive Technology – Automotive Service Councils of California ASCCA Associate in Science and Certificate of Achievement

The Automotive Service Councils of California Association (ASCCA) sponsored degree program offers a unique, on-the-job training opportunity for students accepted by a sponsoring Automotive Repair Dealer (ARD) or affiliate. Students will be required to further their studies in an ASCCA-sponsoring repair facility as a paid apprentice, technician. Successful students will gain over 1000 hours of documented and evaluated paid work experience relating to the learning objectives of the program, Automotive Service Excellence Certifications, and California Smog Inspector and Repair Technician licensing training. This is an excellent major for students wanting to own or operate an independent business.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe and demonstrate knowledge of various automotive system operations and interrelationships at an ASCCA Automotive Repair Dealership or affiliate.
2. Diagnose and repair automotive system problems by performing necessary actions at an ASCCA ARD or affiliate.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
Required Core		
AUTO-099	Introduction to Automotive Technology	3
AUTO-100L	Introduction to Automotive Maintenance and Light Repair Laboratory	1
AUTO-143	Steering and Suspension Diagnosis and Repair	1
AUTO-143L	Steering and Suspension Diagnosis and Repair Laboratory	1
AUTO-143T	Steering and Suspension Diagnosis and Repair Assessment Test Out	0.5
AUTO-151	Brake System Diagnosis and Repair	2

AUTO-151L	Brake System Diagnosis and Repair Laboratory	1
AUTO-151T	Brake System Diagnosis and Repair Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-162L	Electronics Diagnosis and Repair Laboratory	1
AUTO-162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO-183	Engine Performance II Intake Exhaust and Emission Systems	2
AUTO-183L	Engine Performance II Intake Exhaust Emission Systems Laboratory	1
AUTO-183T	Engine Performance II Intake Exhaust Emission Systems Assessment Test Out	0.5
AUTO-284	Level I Inspector Training Emission Control License	2
AUTO-284L	Level I Inspector Training Emission Control License Laboratory	1
AUTO-284T	Level I Inspector Training Emission Control License Assessment Test Out	0.5
AUTO-285	Level II Inspector Training Emission Control License	1
AUTO-285L	Level II Inspector Training Emission Control License Laboratory	1
AUTO-285T	Level II Inspector Training Emission Control License Assessment Test Out	0.5
AUTO-264	Hybrid and Electric Vehicle Operation and Diagnosis	1
AUTO-264L	Hybrid and Electric Vehicle Operation and Diagnosis Laboratory	1
AUTO-264T	Hybrid and Electric Vehicle Operation and Diagnosis Assessment Test Out	0.5
AUTO-213	ASCCA - Work Experience [1]	12
Total Units		**41**

Plus General Education Requirements (p. 57)

[1] Must be taken for a total of 12 units.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Automotive Technology – Automotive Service Councils of California ASCCA. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Automotive Technology – Ford ASSET Associate in Science

The Ford sponsored Automotive Student Service Education Training (ASSET) degree program offers a unique job training opportunity to students sponsored by a Ford dealership. The training includes all major content areas of Ford automotive systems. Students will demonstrate competency by efficiently performing prescribed tasks for Ford certification through laboratory or work experience assessments. Students who have previous college credit or an associate degree or higher may be exempt from all or part of the general education and Ford ASSET major credit requirements. Furthermore, students may use previous military training, automotive classes from accredited colleges, trade schools, or manufacturers training for credit by examination. Please contact the department coordinator for more details.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe and demonstrate knowledge of Ford automotive system operations and interrelationships.
2. Diagnose and repair Ford automotive system problems by performing necessary actions.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
AUTO-111	Engine Diagnosis and Repair	2
AUTO-111L	Engine Diagnosis and Repair Laboratory	1
AUTO-111T	Engine Diagnosis and Repair Assessment Test Out	0.5
AUTO-121	Automatic Transmission Theory and Operation	2
AUTO-121L	Automatic Transmission Theory and Operation Laboratory	1
AUTO-121T	Automatic Transmission Theory and Operation Assessment Test Out	0.5
AUTO-126	Automatic Transmission Diagnosis and Testing	2
AUTO-126L	Automatic Transmission Diagnosis and Testing Laboratory	1
AUTO-126T	Automatic Transmission Diagnosis and Testing Assessment Test Out	0.5
AUTO-132	Differential and 4WD Systems Diagnosis and Service	1
AUTO-132L	Differential and 4WD Systems Laboratory	1
AUTO-132T	Differential and 4WD Systems Assessment Test Out	0.5

AUTO-143	Steering and Suspension Diagnosis and Repair	1
AUTO-143L	Steering and Suspension Diagnosis and Repair Laboratory	1
AUTO-143T	Steering and Suspension Diagnosis and Repair Assessment Test Out	0.5
AUTO-144	Noise, Vibration, and Harshness	0.5
AUTO-144L	Noise, Vibration, and Harshness Laboratory	1
AUTO-144T	Noise, Vibration, and Harshness Assessment Test Out	0.5
AUTO-151	Brake System Diagnosis and Repair	2
AUTO-151L	Brake System Diagnosis and Repair Laboratory	1
AUTO-151T	Brake System Diagnosis and Repair Assessment Test Out	0.5
AUTO-153	Advanced Brake System Diagnosis and Repair	2
AUTO-153L	Advanced Brake System Diagnosis and Repair Laboratory	1
AUTO-153T	Advanced Brake System Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-162L	Electronics Diagnosis and Repair Laboratory	1
AUTO-162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO-171	Climate Control System Diagnosis and Repair	1
AUTO-171L	Climate Control System Diagnosis and Repair Laboratory	1
AUTO-171T	Climate Control System Diagnosis and Repair Assessment Test Out	0.5
AUTO-181	Engine Performance I Ignition and Fuel Systems	2
AUTO-181L	Engine Performance I Ignition and Fuel Systems Laboratory	1
AUTO-181T	Engine Performance I Ignition and Fuel Systems Assessment Test Out	0.5
AUTO-183	Engine Performance II Intake Exhaust and Emission Systems	2
AUTO-183L	Engine Performance II Intake Exhaust Emission Systems Laboratory	1
AUTO-183T	Engine Performance II Intake Exhaust Emission Systems Assessment Test Out	0.5
AUTO-215	Ford ASSET-Work Experience [1]	12
Total Units		**53**

Plus General Education Requirements (p. 57)

[1] Must be taken for a total of 12 units.

Automotive Technology – General Motors ASEP Associate in Science and Certificate of Achievement

The General Motors sponsored Automotive Service Education Program (ASEP) degree program offers a unique job training opportunity to those students who are accepted. Training includes all systems of GM automobiles. In addition, students will be required to further their studies in a sponsoring dealership as a paid GM student technician. Students who have previous college credit or an associate degree or higher may be exempt from all or part of the general education requirements; please see a counselor or coordinator.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe and demonstrate knowledge of General Motors automotive system operations and interrelationships.
2. Diagnose and repair General Motors automotive system problems by performing necessary actions.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
AUTO-111	Engine Diagnosis and Repair	2
AUTO-111L	Engine Diagnosis and Repair Laboratory	1
AUTO-111T	Engine Diagnosis and Repair Assessment Test Out	0.5
AUTO-121	Automatic Transmission Theory and Operation	2
AUTO-121L	Automatic Transmission Theory and Operation Laboratory	1
AUTO-121T	Automatic Transmission Theory and Operation Assessment Test Out	0.5
AUTO-126	Automatic Transmission Diagnosis and Testing	2
AUTO-126L	Automatic Transmission Diagnosis and Testing Laboratory	1
AUTO-126T	Automatic Transmission Diagnosis and Testing Assessment Test Out	0.5
AUTO-132	Differential and 4WD Systems Diagnosis and Service	1
AUTO-132L	Differential and 4WD Systems Laboratory	1
AUTO-132T	Differential and 4WD Systems Assessment Test Out	0.5
AUTO-143	Steering and Suspension Diagnosis and Repair	1

AUTO-143L	Steering and Suspension Diagnosis and Repair Laboratory	1
AUTO-143T	Steering and Suspension Diagnosis and Repair Assessment Test Out	0.5
AUTO-144	Noise, Vibration, and Harshness	0.5
AUTO-144L	Noise, Vibration, and Harshness Laboratory	1
AUTO-144T	Noise, Vibration, and Harshness Assessment Test Out	0.5
AUTO-151	Brake System Diagnosis and Repair	2
AUTO-151L	Brake System Diagnosis and Repair Laboratory	1
AUTO-151T	Brake System Diagnosis and Repair Assessment Test Out	0.5
AUTO-153	Advanced Brake System Diagnosis and Repair	2
AUTO-153L	Advanced Brake System Diagnosis and Repair Laboratory	1
AUTO-153T	Advanced Brake System Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-162L	Electronics Diagnosis and Repair Laboratory	1
AUTO-162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO-171	Climate Control System Diagnosis and Repair	1
AUTO-171L	Climate Control System Diagnosis and Repair Laboratory	1
AUTO-171T	Climate Control System Diagnosis and Repair Assessment Test Out	0.5
AUTO-181	Engine Performance I Ignition and Fuel Systems	2
AUTO-181L	Engine Performance I Ignition and Fuel Systems Laboratory	1
AUTO-181T	Engine Performance I Ignition and Fuel Systems Assessment Test Out	0.5
AUTO-183	Engine Performance II Intake Exhaust and Emission Systems	2
AUTO-183L	Engine Performance II Intake Exhaust Emission Systems Laboratory	1
AUTO-183T	Engine Performance II Intake Exhaust Emission Systems Assessment Test Out	0.5
AUTO-214	General Motors ASEP Work Experience [1]	12
Total Units		**53**

Plus General Education Requirements (p. 57)

[1] Must be taken for a total of 12 units.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Automotive Technology – General Motors ASEP. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Automotive Technology – Maintenance and Light Repair Certificate of Achievement

The Maintenance and Light Repair Certificate focuses on career entry skills. Students begin their automotive technical career performing general maintenance and inspections under the direction of a manager. These labor actions are critical to vehicle health and safety and prescribed by the manufacturer. Extensive knowledge and practice are needed to perform inspections and minor repair actions accurately. This certificate prepares students for entry level employment opportunities and sought-after skills by vehicle repair dealers.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Accurately describe various vehicle conditions related to maintenance and safety.
2. Perform repairs and adjustments of components related to maintenance and safety.
3. Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
4. Comply with environmental health and safety regulations at the state and federal levels.

Certificate of Achievement Requirements

Code	Title	Units
AUTO-099	Introduction to Automotive Technology	3
AUTO-100L	Introduction to Automotive Maintenance and Light Repair Laboratory	1
AUTO-111	Engine Diagnosis and Repair	2
AUTO-111L	Engine Diagnosis and Repair Laboratory	1
AUTO-111T	Engine Diagnosis and Repair Assessment Test Out	0.5
AUTO-143	Steering and Suspension Diagnosis and Repair	1
AUTO-143L	Steering and Suspension Diagnosis and Repair Laboratory	1
AUTO-143T	Steering and Suspension Diagnosis and Repair Assessment Test Out	0.5
AUTO-151	Brake System Diagnosis and Repair	2
AUTO-151L	Brake System Diagnosis and Repair Laboratory	1
AUTO-151T	Brake System Diagnosis and Repair Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5

AUTO-171	Climate Control System Diagnosis and Repair	1
AUTO-171L	Climate Control System Diagnosis and Repair Laboratory	1
AUTO-171T	Climate Control System Diagnosis and Repair Assessment Test Out	0.5
Total Units		**19.5**

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

CADD Technology

- CADD Technology: Building Design Industry Associate in Science and Certificate of Achievement (p. 134)
- CADD Technology: Manufacturing Industry Associate in Science and Certificate of Achievement (p. 135)
- CADD/Manufacturing Technology Certificate of Specialization (p. 135)

CADD Technology: Building Design Industry Associate in Science and Certificate of Achievement

Occupational preparation in Computer-Aided Drafting and Design is the primary purpose of the CADD Technology degree program. Students are required to complete two core courses and to select from two potential career paths: Building Design Industry or Manufacturing Industry. Adherence to industrial practices and standards is stressed, including problem solving in a simulated industrial environment.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Create 3D modeling objects of various orientations including sections and elevations of objects, and identify the relationships of objects or object features to demonstrate visualization proficiency.
2. Identify or describe the typical characteristics and uses of common construction or manufacturing materials, products and systems, document them in drawings, and make appropriate selections based on design project requirements.
3. Use the latest version of 2D/3D CADD and Solid Modeling software programs (AutoCAD and SolidWorks) to create industry standard architectural or engineering drawings.
4. Model the habits and attitudes for success in professional employment as a CADD technician including the preparation and presentation of a professional portfolio.
5. Demonstrate computation, communication, critical thinking, and problem-solving skills to perform effectively as a CADD technician in the field of architecture and/or the civil, electronic, mechanical, structural, and surveying engineering fields.

Career Opportunities

CAD Technician in the field of Architecture and Civil, Electronic, Mechanical, Structural, and Surveying Engineering

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
CADD-115	Engineering Graphics	3
CADD-119	Intro to CAD and Design	3
Total Units		**6**

Area of Emphasis: Building Design Industry

Code	Title	Units
Core Courses		6
CADD-127/SURV-127	Survey Drafting Technology	3
CADD-131	Architectural Computer-Aided Drafting and Design	3
CADD-133	Advanced Architectural Computer-Aided Drafting and Design	3
CADD-200/OH-200	Introduction to Computer-Aided Landscape Design	3
Select two of the following:		6
CADD-128	Geometric Dimensioning and Tolerancing (GDT)	
CADD-132	Advanced Computer-Aided Drafting and Design in 3D Modeling	
CADD-201/OH-201	Advanced Computer-Aided Landscape Design	
Total Units		**24**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the courses required for the major including an area of emphasis qualify for a Certificate in CADD Technology in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

CADD Technology: Manufacturing Industry Associate in Science and Certificate of Achievement

Occupational preparation in Computer-Aided Drafting and Design is the primary purpose of the CADD Technology degree program. Students are required to complete two core courses and to select from two potential career paths: Building Design Industry or Manufacturing Industry. Adherence to industrial practices and standards is stressed, including problem solving in a simulated industrial environment.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Create 3D modeling objects of various orientations including sections and elevations of objects, and identify the relationships of objects or object features to demonstrate visualization proficiency.
2. Identify or describe the typical characteristics and uses of common construction or manufacturing materials, products and systems, document them in drawings, and make appropriate selections based on design project requirements.
3. Use the latest version of 2D/3D CADD and Solid Modeling software programs (AutoCAD and SolidWorks) to create industry standard architectural or engineering drawings.
4. Model the habits and attitudes for success in professional employment as a CADD technician including the preparation and presentation of a professional portfolio.
5. Demonstrate computation, communication, critical thinking, and problem-solving skills to perform effectively as a CADD technician in the field of architecture and/or the civil, electronic, mechanical, structural, and surveying engineering fields.

Career Opportunities

CAD Technician in the field of Architecture and Civil, Electronic, Mechanical, Structural, and Surveying Engineering

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
CADD-115	Engineering Graphics	3
CADD-119	Intro to CAD and Design	3
CADD-128	Geometric Dimensioning and Tolerancing (GDT)	3
Total Units		**9**

Area of Emphasis: Manufacturing Industry

Code	Title	Units
Core Courses		9
Select three of the following:		9
CADD-125/ ENGR-125	Solid Modeling Design	
CADD-129/ ENGR-129	Engineering Solid Modeling	
CADD-132	Advanced Computer-Aided Drafting and Design in 3D Modeling	
Select two of the following:		6
CADD-127/ SURV-127	Survey Drafting Technology	
CADD-131	Architectural Computer-Aided Drafting and Design	
CADD-133	Advanced Architectural Computer-Aided Drafting and Design	
CADD-200/OH-200	Introduction to Computer-Aided Landscape Design	
Total Units		**24**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the courses required for the major including an area of emphasis qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

CADD/Manufacturing Technology Certificate of Specialization

This Certificate-program is designed to introduce the various technologies used in manufacturing/advanced manufacturing, including new manufacturing technologies. This program is well-balanced between theoretical and practical aspects of manufacturing/advanced manufacturing.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Understand principles of the current technology used in manufacturing.
2. Apply the appropriate technology in manufacturing.
3. Define the advantages and disadvantages of the application of “AI” in manufacturing.
4. Work at an entry level in the metal-work industry.
5. Perform their jobs in a safe manner.

Certificate Requirements

Code	Title	Units
CADD-115	Engineering Graphics	3
CADD-125/ENGR-125	Solid Modeling Design (SW) [1]	3
CADD-140	Introduction to Advanced CADD/ Manufacturing	2

CADD-141	Introduction to Technology of Machine Tools	2
CADD-150	Occupational Work Experience in CADD Technology/Manufacturing	4
Total Units		**14**

[1] Students have also the opportunity to attain a certificate of "Certified SolidWorks Associate (CSWA)."

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Center for Water Studies

- Advanced Water Treatment Associate in Science and Certificate of Achievement (p. 136)
- Backflow & Cross-Connection Control Associate in Science and Certificate of Achievement (p. 137)
- Wastewater Collection Systems Associate in Science and Certificate of Achievement (p. 137)
- Wastewater Treatment Operations Associate in Science and Certificate of Achievement (p. 138)
- Water Distribution Operations Associate in Science and Certificate of Achievement (p. 139)
- Water Resources Management Associate in Science and Certificate of Achievement (p. 140)
- Water Treatment Plant Operations Associate in Science and Certificate of Achievement (p. 141)
- Wastewater Collection Systems, Stackable Certificates of Specialization (p. 141)
- Wastewater Treatment Operations, Stackable Certificates of Specialization (p. 143)
- Water Distribution Operations, Stackable Certificates of Specialization (p. 144)
- Water Treatment Plant Operations, Stackable Certificates of Specialization (p. 145)

Advanced Water Treatment Associate in Science and Certificate of Achievement

The most advanced and current wastewater treatment technology involves processing wastewater into purified drinking water. Wastewater Treatment Operators at these new treatment facilities will be required to have the new CWEA/AWWA Advanced Water Treatment certifications, AWTO 3-5. Students who complete the required courses for this certificate and/or degree program will be prepared to take and pass the CWEA AWTO 3 and AWTO 4 certification exams.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform advanced water treatment work functions in accordance with accepted water and wastewater industry standards and practices.
2. Assess and resolve advanced water treatment process issues and problems using current water and wastewater industry-specific methods, tools, and resources.
3. Communicate effectively, orally and in writing, to managers, peers, subordinates, and the public.
4. Abide by water and wastewater industry codes and regulations regarding occupational health, safety, and environmental standards.

Associate in Science Degree Requirements

Code	Title	Units
CWS-102	Calculations in Water & Wastewater	3
CWS-107	Safety in Water & Wastewater	3
CWS-110	Laboratory Analysis for Water & Wastewater	3
CWS-112	Water Treatment Plant Operations	3
CWS-114	Wastewater Treatment Plant Operations	3
CWS-115	Wastewater Reclamation and Reuse	3
CWS-116	Advanced Water Treatment I	3
CWS-134	Pumps, Motors & Valves	3
CWS-216	Advanced Water Treatment II	3
CWS-268	Membrane Plant Operation	3
Select at least six units from the following:		6-7
CWS-100	Career Pathways in Water & Wastewater	
CWS-101	Fundamentals of Water & Wastewater	
CWS-103	Water Resources Management	
CWS-106	Electrical & Instrumentation Processes	
CWS-130	Water Distribution Systems	
CWS-132	Wastewater Collection Systems	
CWS-204	Applied Hydraulics	
CWS-206	Advanced Electrical & Instrumentation Processes	
CWS-207	Practical Skills in Water & Wastewater Systems	
CWS-210	Advanced Laboratory Analysis for Water & Wastewater	
CWS-212	Advanced Water Treatment Plant Operations	
CWS-214	Advanced Wastewater Treatment Plant Operations	
CWS-232	Advanced Wastewater Collection Systems	
CWS-280	Backflow Tester Training	
CWS-282	Cross-Connection Control Specialist	
CWS-284	Cross-Connection Control Specialist-Recycled Water	

CWS-290	Cooperative Work Experience	
Total Units		**36-37**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Advanced Water Treatment. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Backflow & Cross-Connection Control Associate in Science and Certificate of Achievement

Students will study the technical processes, procedures, and methods used in the production, use, and distribution of recycled and reclaimed wastewater, including backflow protection, legal, administrative and permitting issues, the treatment process, health and safety concerns, and the cross-connection control (shut down) test as performed in San Diego County. The courses consist of both classroom and demonstration sessions which cover all aspects of cross-connection control and recycled water shut down testing.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Differentiate between different backflow devices and methods.
2. Compare and contrast the effective uses of backflow devices and explain their limitations.
3. Describe the specifications, installation, and operation of typical devices used in backflow prevention and testing and explain their proper installation.
4. Perform accurate backflow prevention tests using proper test equipment.
5. Analyze backflow prevention test results using standardized test reporting forms.
6. Evaluate backflow testing device malfunctions.
7. Articulate the importance of proper backflow testing equipment selection and use.
8. Cite specific laws pertaining to cross-connection control programs.
9. Complete basic backflow testing device repairs requiring breakdown and reassembly.
10. Articulate the AWWA and ABPA testing standards.

Associate in Science Degree Requirements

Code	Title	Units
CWS-101	Fundamentals of Water & Wastewater	3
CWS-102	Calculations in Water & Wastewater	3
CWS-130	Water Distribution Systems	3
CWS-204	Applied Hydraulics	3
CWS-280	Backflow Tester Training	2
CWS-282	Cross-Connection Control Specialist	3
CWS-284	Cross-Connection Control Specialist-Recycled Water	3
Select at least nine units from the following:		9-11
CWS-103	Water Resources Management	
CWS-105	Water Conservation	
CWS-106	Electrical & Instrumentation Processes	
CWS-110	Laboratory Analysis for Water & Wastewater	
CWS-115	Wastewater Reclamation and Reuse	
CWS-132	Wastewater Collection Systems	
CWS-134	Pumps, Motors & Valves	
CWS-290	Cooperative Work Experience	
Total Units		**29-31**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Backflow & Cross-Connection Control. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Wastewater Collection Systems Associate in Science and Certificate of Achievement

Students completing the required courses for this major will qualify to take nearly a dozen wastewater related certification examinations offered by the California Water Environment Association (CWEA). Although current State regulations do not require certification of wastewater collection system personnel, many public sector employers either require or prefer job applicants who have obtained the CWEA Wastewater Collection and Maintenance certifications.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Define common terminology pertaining to collections system components, design, and management as well as inspection and quality control.
2. Identify the types and functions of pipes and fittings used in wastewater collection system design and management.
3. Given a wastewater collection map book, identify pipeline dimensions, pipe construction materials, direction of flow, and location of valves, services and lift stations.
4. Describe in detail basic underground location and leak detection, trenching and shoring, and backfill and compaction methods of construction used in the field.
5. Describe the nine basic cleaning methods and basic principles involved in hydraulic and mechanical cleaning methods.

6. List and describe the operation of common valves used in a wastewater collection system.
7. Perform basic mathematical computations and conversions relating to wastewater collection systems, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.

Associate in Science Degree Requirements

Code	Title	Units
CWS-100	Career Pathways in Water & Wastewater	3
CWS-101	Fundamentals of Water & Wastewater	3
CWS-102	Calculations in Water & Wastewater	3
CWS-106	Electrical & Instrumentation Processes	3
CWS-107	Safety in Water & Wastewater	3
CWS-132	Wastewater Collection Systems	3
CWS-134	Pumps, Motors & Valves	3
CWS-204	Applied Hydraulics	3
CWS-232	Advanced Wastewater Collection Systems	3
CWS-282	Cross-Connection Control Specialist	3
Select at least six units from the following:		6-7
CWS-103	Water Resources Management	
CWS-110	Laboratory Analysis for Water & Wastewater	
CWS-112	Water Treatment Plant Operations	
CWS-114	Wastewater Treatment Plant Operations	
CWS-115	Wastewater Reclamation and Reuse	
CWS-130	Water Distribution Systems	
CWS-206	Advanced Electrical & Instrumentation Processes	
CWS-207	Practical Skills in Water & Wastewater Systems	
CWS-210	Advanced Laboratory Analysis for Water & Wastewater	
CWS-214	Advanced Wastewater Treatment Plant Operations	
CWS-230	Advanced Water Distribution Systems	
CWS-270	Public Works Supervision	
CWS-280	Backflow Tester Training	
CWS-284	Cross-Connection Control Specialist-Recycled Water	
CWS-290	Cooperative Work Experience	
Total Units		**36-37**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Wastewater Collection Systems. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Wastewater Treatment Operations Associate in Science and Certificate of Achievement

Students who complete the required courses for this certificate and/or degree program will qualify to take the SWRCB certification examination for the Grade I Wastewater Plant Operator as well as nearly a dozen wastewater related certification examinations offered by CWEA. There are over 80 wastewater treatment and reclamation facilities in San Diego County that are currently licensed and regulated by the SWRCB.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Describe wastewater collection system components.
2. Identify the characteristics and sources of municipal sewage.
3. Define wastewater collection system and wastewater treatment plant terminology.
4. Describe the basic principles of conventional wastewater treatment.
5. Compare and contrast wastewater treatment unit processes including preliminary, primary, secondary and tertiary treatment.
6. Explain the basic principles of preliminary, primary, secondary and tertiary treatment.
7. Perform basic mathematical calculations and conversions relating to water flow, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.
8. Recognize and comment on safety procedures applicable to service and operation of wastewater collection and treatment systems, including potential problems.

Associate in Science Degree Requirements

Code	Title	Units
CWS-100	Career Pathways in Water & Wastewater	3
CWS-101	Fundamentals of Water & Wastewater	3
CWS-102	Calculations in Water & Wastewater	3
CWS-106	Electrical & Instrumentation Processes	3
CWS-107	Safety in Water & Wastewater	3
CWS-110	Laboratory Analysis for Water & Wastewater	3
CWS-114	Wastewater Treatment Plant Operations	3
CWS-134	Pumps, Motors & Valves	3
CWS-204	Applied Hydraulics	3
CWS-214	Advanced Wastewater Treatment Plant Operations	3
Select at least six units from the following:		6-7
CWS-103	Water Resources Management	
CWS-112	Water Treatment Plant Operations	
CWS-115	Wastewater Reclamation and Reuse	
CWS-130	Water Distribution Systems	

CWS-132	Wastewater Collection Systems
CWS-206	Advanced Electrical & Instrumentation Processes
CWS-207	Practical Skills in Water & Wastewater Systems
CWS-210	Advanced Laboratory Analysis for Water & Wastewater
CWS-212	Advanced Water Treatment Plant Operations
CWS-232	Advanced Wastewater Collection Systems
CWS-268	Membrane Plant Operation
CWS-270	Public Works Supervision
CWS-280	Backflow Tester Training
CWS-282	Cross-Connection Control Specialist
CWS-284	Cross-Connection Control Specialist-Recycled Water
CWS-290	Cooperative Work Experience
Total Units	**36-37**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Wastewater Treatment Operations. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Water Distribution Operations Associate in Science and Certificate of Achievement

Students in this major learn the methods, processes, technology, and current practices involved in operating and maintaining modern, complex water distribution systems. Students who satisfactorily complete the required courses for this certificate and/or degree program will qualify to take the CDPH Grade D-1 through D-5 Water Distribution Operator examinations required to obtain certification and employment with a water district.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Identify sources and characteristics of water common to water distribution systems.
2. Compare and contrast the different types of water distribution systems currently used in the United States.
3. Identify drinking water public health hazards and water quality standards common to the industry.
4. Using calculations and conversions, determine water flow, pressure, volume, velocity and force, and chemical dosage used in water distribution systems.
5. Identify and compare methods used to handle, install and repair water distribution pipe.
6. Explain principles of pump operation for the types of pumps used in water distribution systems, including common problems, necessary adjustments, and typical packing gland problems.
7. Explain the electrical principles involved in control circuits common to water distribution systems.
8. Explain the required safe handling and storage of chlorine used in water distribution systems.
9. Check and utilize water maps and drawings to determine location, type and characteristics of water distribution systems.
10. Specify necessary procedures needed to safely complete field work in a water distribution system.
11. Compare and contrast factors considered in the selection of pipe and different types of water meters.
12. Demonstrate the ability to read meters and calculate the meter accuracy.

Associate in Science Degree Requirements

Code	Title	Units
CWS-100	Career Pathways in Water & Wastewater	3
CWS-101	Fundamentals of Water & Wastewater	3
CWS-102	Calculations in Water & Wastewater	3
CWS-106	Electrical & Instrumentation Processes	3
CWS-107	Safety in Water & Wastewater	3
CWS-110	Laboratory Analysis for Water & Wastewater	3
CWS-130	Water Distribution Systems	3
CWS-134	Pumps, Motors & Valves	3
CWS-204	Applied Hydraulics	3
CWS-230	Advanced Water Distribution Systems	3
Select at least six units from the following:		6-7
CWS-103	Water Resources Management	
CWS-105	Water Conservation	
CWS-112	Water Treatment Plant Operations	
CWS-115	Wastewater Reclamation and Reuse	
CWS-132	Wastewater Collection Systems	
CWS-206	Advanced Electrical & Instrumentation Processes	
CWS-207	Practical Skills in Water & Wastewater Systems	
CWS-210	Advanced Laboratory Analysis for Water & Wastewater	
CWS-212	Advanced Water Treatment Plant Operations	
CWS-232	Advanced Wastewater Collection Systems	
CWS-270	Public Works Supervision	
CWS-280	Backflow Tester Training	
CWS-282	Cross-Connection Control Specialist	
CWS-284	Cross-Connection Control Specialist-Recycled Water	

CWS-290	Cooperative Work Experience	
Total Units		**36-37**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Water Distribution Operations. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Water Resources Management Associate in Science and Certificate of Achievement

This major prepares students to design, implement and evaluate water conservation/water resources management programs and to assist in developing more diversified water resource portfolios in the water and wastewater sector or in the landscape and property management field. Emphasis is on emerging technologies and methods that lead to long-term sustainability of our water and wastewater resources. Attaining a certificate or degree in this major will prepare students to enter careers in water conservation, watershed management, water resources and groundwater, public information, and community education. Careers in landscape and facilities maintenance, irrigation system design, urban water management, and landscape design are also options. Students successfully completing the core requirements for this major will qualify to take the American Water Works Association's Water Use Efficiency Practitioner certification examination, the Landscape Water Management certification offered by the California Landscape Contractor's Association, and the Certified Landscape Water Manager certification offered by the Irrigation Association. In addition to preparing students for entry level jobs in the water and wastewater field, courses in this major prepare students to transfer to a number of four-year college or university degree programs, including Water Resources, Environmental Sciences, and Natural Resources Management.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Describe the essential uses of water, the infrastructure that has been developed to meet demand, and the problems the water industry faces.
2. Identify a specified number of legal and financial constraints which complicate efficient and effective water resource management.
3. Explain the concept and importance of water portfolio diversification.
4. Describe the political/organizational structures and list the major agencies involved in providing water in the greater San Diego region.
5. Compare and contrast the sources of wastewater, the major collection/transportation networks, and the major wastewater treatment/reclamation facilities operating in San Diego County.
6. Identify the major regulatory agencies that monitor and regulate the water/wastewater industry.
7. Explain how the current carbon footprint of the water and wastewater infrastructure significantly impacts California's energy and power demands.
8. Compare and contrast a specified number of resource recovery/alternative treatment methods.

Associate in Science Degree Requirements

Code	Title	Units
CWS-101	Fundamentals of Water & Wastewater	3
CWS-103	Water Resources Management	3
CWS-105	Water Conservation	3
CWS-115	Wastewater Reclamation and Reuse	3
OH-120	Fundamentals of Ornamental Horticulture	3
OH-170	Plant Materials: Trees and Shrubs	3
OH-221	Landscape Construction: Irrigation	2.5
OH-250	Landscape Water Management	2
CWS-290	Cooperative Work Experience	2
or OH-290	Cooperative Work Experience Education	
Select two of the following:		5-6
CWS-102	Calculations in Water & Wastewater	
CWS-112	Water Treatment Plant Operations	
CWS-114	Wastewater Treatment Plant Operations	
CWS-130	Water Distribution Systems	
CWS-132	Wastewater Collection Systems	
CWS-280	Backflow Tester Training	
CWS-282	Cross-Connection Control Specialist	
CWS-284	Cross-Connection Control Specialist-Recycled Water	
Select two of the following:		4-7
OH-102	Xeriscape: Water Conservation in the Landscape	
OH-140	Soils	
OH-174	Turf and Ground Cover Management	
OH-220	Landscape Construction: Concrete and Masonry	
OH-235	Principles of Landscape Irrigation	
OH-238	Irrigation System Design	
OH-255	Sustainable Urban Landscape Principles and Practices	
Total Units		**33.5-37.5**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Water Resources Management. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Water Treatment Plant Operations Associate in Science and Certificate of Achievement

Students enrolled in this major learn the key steps, processes, and current technology involved in operating modern water treatment plants. Students who satisfactorily complete the required courses in this certificate and/or degree program will qualify to take the California Department of Public Health (CDPH) Grade T-1 and T-2 Water Treatment Plant Operator examinations required for certification and employment at water treatment plants.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Identify in detail characteristics and sources of ground water and surface water supplies including the chemical, physical and bacterial characteristics, and explain the effects on quality of geological formations, stratifications, and watershed management.
2. Compare the basic principles of each water treatment process and list them in order performed.
3. Identify and classify water distribution system components.
4. Explain pump cavitation, corrosion, cross-connection, air valves, head loss and main flushing in relation to water and wastewater collection, distribution, and treatment.
5. Compare and contrast the basic principles of each water treatment process and list them in order performed.
6. Explain and prepare a plan for the use of chlorine including the characteristics of and methods for storing, feeding and measuring chlorine including the effects of moisture, pH and temperature on feed rate, and the health and safety effects, procedures and personal protective requirements.
7. Determine the methods used for coagulation, flocculation and sedimentation including common chemicals used, feed systems, effects of time temperature, turbidity and pH, and the measurement of turbidity and color.
8. Compare and contrast the six basic water quality parameters and explain in detail microbiological and chemical components, including sampling requirements and properties.
9. Demonstrate through testing basic knowledge of the regulations for monitoring water quality and performing water treatment.
10. Perform basic mathematical calculations and conversions relating to water flow, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.
11. Determine appropriate safety procedures applicable to service and operation of water treatment and distribution systems including potential problems.

Associate in Science Degree Requirements

Code	Title	Units
CWS-100	Career Pathways in Water & Wastewater	3
CWS-101	Fundamentals of Water & Wastewater	3
CWS-102	Calculations in Water & Wastewater	3
CWS-106	Electrical & Instrumentation Processes	3
CWS-107	Safety in Water & Wastewater	3
CWS-110	Laboratory Analysis for Water & Wastewater	3
CWS-112	Water Treatment Plant Operations	3
CWS-134	Pumps, Motors & Valves	3
CWS-204	Applied Hydraulics	3
CWS-212	Advanced Water Treatment Plant Operations	3
Select at least six units from the following:		6-7
CWS-103	Water Resources Management	
CWS-105	Water Conservation	
CWS-114	Wastewater Treatment Plant Operations	
CWS-115	Wastewater Reclamation and Reuse	
CWS-130	Water Distribution Systems	
CWS-206	Advanced Electrical & Instrumentation Processes	
CWS-207	Practical Skills in Water & Wastewater Systems	
CWS-210	Advanced Laboratory Analysis for Water & Wastewater	
CWS-214	Advanced Wastewater Treatment Plant Operations	
CWS-230	Advanced Water Distribution Systems	
CWS-268	Membrane Plant Operation	
CWS-270	Public Works Supervision	
CWS-280	Backflow Tester Training	
CWS-282	Cross-Connection Control Specialist	
CWS-290	Cooperative Work Experience	
Total Units		**36-37**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Water Treatment Plant Operations. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Wastewater Collection Systems, Stackable Certificates of Specialization

- Wastewater Collection Systems, Water & Wastewater Fundamentals Certificate of Specialization (p. 142)
- Wastewater Collection Systems Certificate of Specialization (p. 142)
- Wastewater Collection Systems, Advanced Wastewater Collection Systems Certificate of Specialization (p. 142)

Wastewater Collection Systems, Water & Wastewater Fundamentals Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Wastewater Collection Systems-1: Define common terminology pertaining to collections system components, design, and management as well as inspection and quality control.
2. Wastewater Collection Systems-3: Given a wastewater collection map book, identify pipeline dimensions, pipe construction materials, direction of flow, and location of valves, services and lift stations.
3. Wastewater Collection Systems-7: Perform basic mathematical computations and conversions relating to wastewater collection systems, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.

Certificate Requirements

Code	Title	Units
CWS-100	Career Pathways in Water & Wastewater	3
CWS-101	Fundamentals of Water & Wastewater	3
CWS-102	Calculations in Water & Wastewater	3
CWS-107	Safety in Water & Wastewater	3
Total Units		**12**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Wastewater Collection Systems Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Wastewater Collection Systems-4: Describe in detail basic underground location and leak detection, trenching and shoring, and backfill and compaction methods of construction used in the field.
2. Wastewater Collection Systems-5: Describe the nine basic cleaning methods and basic principles involved in hydraulic and mechanical cleaning methods.
3. Wastewater Collection Systems-6: List and describe the operation of common valves used in a wastewater collection system.

Certificate Requirements

Code	Title	Units
CWS-132	Wastewater Collection Systems	3
CWS-134	Pumps, Motors & Valves	3
CWS-282	Cross-Connection Control Specialist	3
Total Units		**9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Wastewater Collection Systems, Advanced Wastewater Collection Systems Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Wastewater Collection Systems-7: Perform basic mathematical computations and conversions relating to wastewater collection systems, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.
2. Wastewater Collection Systems-5: Describe the nine basic cleaning methods and basic principles involved in hydraulic and mechanical cleaning methods.
3. Wastewater Collection Systems-2: Identify the types and functions of pipes and fittings used in wastewater collection system design and management.
4. Wastewater Collection Systems-4: Describe in detail basic underground location and leak detection, trenching and shoring, and backfill and compaction methods of construction used in the field.

Certificate Requirements

Code	Title	Units
CWS-106	Electrical & Instrumentation Processes	3
CWS-204	Applied Hydraulics	3
CWS-232	Advanced Wastewater Collection Systems	3
Total Units		**9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Wastewater Treatment Operations, Stackable Certificates of Specialization

- Wastewater Treatment Operations, Water & Wastewater Fundamentals Certificate of Specialization (p. 143)
- Wastewater Treatment Operations Certificate of Specialization (p. 143)
- Wastewater Treatment Operations, Advanced Wastewater Treatment Operations Certificate of Specialization (p. 143)

Wastewater Treatment Operations, Water & Wastewater Fundamentals Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Wastewater Treatment Operator-1: Identify in detail characteristics and sources of ground water and surface water supplies including the chemical, physical and bacterial characteristics, and explain the effects on quality of geological formations, stratifications, and watershed management.
2. Wastewater Treatment Operator-7: Perform basic mathematical calculations and conversions relating to water flow, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.
3. Wastewater Treatment Operator-8: Recognize and comment on safety procedures applicable to service and operation of wastewater collection and treatment systems, including potential problems.

Certificate Requirements

Code	Title	Units
CWS-100	Career Pathways in Water & Wastewater	3
CWS-101	Fundamentals of Water & Wastewater	3
CWS-102	Calculations in Water & Wastewater	3
CWS-107	Safety in Water & Wastewater	3
Total Units		**12**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Wastewater Treatment Operations Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Wastewater Treatment Operator-2: Identify the characteristics and sources of municipal sewage.
2. Wastewater Treatment Operator-4: Describe the basic principles of conventional wastewater treatment.
3. Wastewater Treatment Operator-8: Recognize and comment on safety procedures applicable to service and operation of wastewater collection and treatment systems, including potential problems.

Certificate Requirements

Code	Title	Units
CWS-106	Electrical & Instrumentation Processes	3
CWS-110	Laboratory Analysis for Water & Wastewater	3
CWS-114	Wastewater Treatment Plant Operations	3
Total Units		**9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Wastewater Treatment Operations, Advanced Wastewater Treatment Operations Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Wastewater Treatment Operator-7: Perform basic mathematical calculations and conversions relating to water flow, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.

2. Wastewater Treatment Operator-3: Describe the specifications, installation, and operation of typical devices used in backflow prevention and testing and explain their proper installation.
3. Wastewater Treatment Operator-6: Explain the basic principles of preliminary, primary, secondary and tertiary treatment.
4. Wastewater Treatment Operator-5: Compare and contrast wastewater treatment unit processes including preliminary, primary, secondary and tertiary treatment.

Certificate Requirements

Code	Title	Units
CWS-134	Pumps, Motors & Valves	3
CWS-204	Applied Hydraulics	3
CWS-214	Advanced Wastewater Treatment Plant Operations	3
Total Units		**9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Water Distribution Operations, Stackable Certificates of Specialization

- Water Distribution Operations, Water & Wastewater Fundamentals Certificate of Specialization (p. 144)
- Water Distribution Operations Certificate of Specialization (p. 144)
- Water Distribution Operations, Advanced Water Distribution Operations Certificate of Specialization (p. 145)

Water Distribution Operations, Water & Wastewater Fundamentals Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Water Distribution System Operations-1: Identify sources and characteristics of water common to water distribution systems.
2. Water Distribution System Operations-4: Using calculations and conversions, determine water flow, pressure, volume, velocity and force, and chemical dosage used in water distribution systems.
3. Water Distribution System Operations-10: Specify necessary procedures needed to safely complete field work in a water distribution system.

Certificate Requirements

Code	Title	Units
CWS-100	Career Pathways in Water & Wastewater	3
CWS-101	Fundamentals of Water & Wastewater	3
CWS-102	Calculations in Water & Wastewater	3
CWS-107	Safety in Water & Wastewater	3
Total Units		**12**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Water Distribution Operations Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Water Distribution System Operations-3: Identify drinking water public health hazards and water quality standards common to the industry.
2. Water Distribution System Operations-4: Using calculations and conversions, determine water flow, pressure, volume, velocity and force, and chemical dosage used in water distribution systems.
3. Water Distribution System Operations-6: Explain principles of pump operation for the types of pumps used in water distribution systems including common problems, necessary adjustments, and typical packing gland problems.

Certificate Requirements

Code	Title	Units
CWS-106	Electrical & Instrumentation Processes	3
CWS-130	Water Distribution Systems	3
CWS-134	Pumps, Motors & Valves	3
Total Units		**9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Water Distribution Operations, Advanced Water Distribution Operations Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Water Distribution System Operations-5: Identify and compare methods used to handle, install and repair water distribution pipe.
2. Water Distribution System Operations-7: Explain the electrical principles involved in control circuits common to water distribution systems.
3. Water Distribution System Operations-8: Explain the required safe handling and storage of chlorine used in water distribution systems
4. Water Distribution System Operations-11: Compare and contrast factors considered in the selection of pipe and different types of water meters.

Certificate Requirements

Code	Title	Units
CWS-110	Laboratory Analysis for Water & Wastewater	3
CWS-204	Applied Hydraulics	3
CWS-230	Advanced Water Distribution Systems	3
Total Units		**9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Water Treatment Plant Operations, Stackable Certificates of Specialization

- Water Treatment Plant Operations, Water & Wastewater Fundamentals Certificate of Specialization (p. 145)
- Water Treatment Plant Operations Certificate of Specialization (p. 145)
- Water Treatment Plant Operations, Advanced Water Treatment Plant Operations Certificate of Specialization (p. 146)

Water Treatment Plant Operations, Water & Wastewater Fundamentals Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Water Treatment Plant Operator-1: Identify in detail characteristics and sources of ground water and surface water supplies including the chemical, physical and bacterial characteristics, and explain the effects on quality of geological formations, stratifications, and watershed management.
2. Water Treatment Plant Operator-10: Perform basic mathematical calculations and conversions relating to water flow, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.
3. Water Treatment Plant Operator-11: Determine appropriate safety procedures applicable to service and operation of water treatment and distribution systems including potential problems.

Certificate Requirements

Code	Title	Units
CWS-100	Career Pathways in Water & Wastewater	3
CWS-101	Fundamentals of Water & Wastewater	3
CWS-102	Calculations in Water & Wastewater	3
CWS-107	Safety in Water & Wastewater	3
Total Units		**12**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Water Treatment Plant Operations Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Water Treatment Plant Operator-2: Compare the basic principles of each water treatment process and list them in order performed.
2. Water Treatment Plant Operator-5: Compare and contrast the basic principles of each water treatment process and list them in order performed.

3. Water Treatment Plant Operator-9: Demonstrate through testing basic knowledge of the regulations for monitoring water quality and performing water treatment.

Certificate Requirements

Code	Title	Units
CWS-106	Electrical & Instrumentation Processes	3
CWS-110	Laboratory Analysis for Water & Wastewater	3
CWS-112	Water Treatment Plant Operations	3
Total Units		**9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Water Treatment Plant Operations, Advanced Water Treatment Plant Operations Certificate of Specialization

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Water Treatment Plant Operator-5: Compare and contrast the basic principles of each water treatment process and list them in order performed.
2. Water Treatment Plant Operator-6: Explain and prepare a plan for the use of chlorine including the characteristics of and methods for storing, feeding and measuring chlorine including the effects of moisture, pH and temperature on feed rate, and the health and safety effects, procedures and personal protective requirements.
3. Water Treatment Plant Operator-7: Determine the methods used for coagulation, flocculation and sedimentation including common chemicals used, feed systems, effects of time temperature, turbidity and pH, and the measurement of turbidity and color.
4. Water Treatment Plant Operator-9: Demonstrate through testing basic knowledge of the regulations for monitoring water quality and performing water treatment.

Certificate Requirements

Code	Title	Units
CWS-134	Pumps, Motors & Valves	3
CWS-204	Applied Hydraulics	3
CWS-212	Advanced Water Treatment Plant Operations	3
Total Units		**9**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Computer and Information Science

- Networking, Security and System Administration - Enterprise Networking Associate in Science and Certificate of Achievement (p. 147)
- Networking, Security and System Administration - Enterprise System Administration Associate in Science and Certificate of Achievement (p. 148)
- Web Development Associate in Science and Certificate of Achievement (p. 149)
- Cisco Certified Network Associate Certificate of Specialization (p. 149)
- Computer Programming Certificate of Specialization (p. 150)
- Computer Support Technician Certificate of Specialization (p. 150)
- Cyber Security Specialist Certificate of Specialization (p. 150)
- Web Design Certificate of Specialization (p. 151)
- Web Programming Certificate of Specialization (p. 151)
- Similar Course List (p. 151)

Networking, Security and System Administration - Enterprise Networking Associate in Science and Certificate of Achievement

See Business Office Technology for specific Microsoft applications (Word, Excel, PowerPoint, etc.).

These degree programs prepare students for careers in computer networking or system administration and related fields. Upon completion, students may find entry level positions as computer support technicians, junior network administrators, junior system administrators, hardware technicians, data/voice/video cabling technicians, network project managers, designers/estimators or technical support personnel. The major prepares students to work as team members in an information technology group which designs, evaluates, tests, installs and maintains corporate networks. Preparation for the following industry certifications: A+, Network+, Security+, Linux+, Microsoft Certified Technician (MCT) in Windows and Windows Server (active directory, network infrastructure and applications infrastructure), Linux Profession Institute Certification Level 2, Certified Wireless Network Administrator (CWNA), Cisco Certified Network Associate (CCNA), Certified Ethical Hacking (CEH).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Install, configure, upgrade, diagnose and troubleshoot a personal computer and its associated networking hardware and software in accordance with industry standards.

Career Opportunities

Communications Specialist
Computer Game Programmer
Computer Hardware Specialist
Computer Help Desk Technician
Computer Maintenance Technician
Computer Software Technician
Computer Support Specialist
Computer Systems Analyst[1]
Computing Analyst[1]
Cyber Security Specialist
Database Manager[1]
Information Specialist
Information Systems Programmer[1]
LAN/WAN Manager
Manufacturer's Representative
Network Administrator
Network Analyst[1]
Network Consultant
Network Control Technician
Network Training and Support Specialist
Programmer Analyst[1]
Sales and Service
Scientific Programmer[1]
Software Consultant
Software Developer[1]
Systems Analyst[1]
Systems Programmer[1]
Technical Support Representative
Telecommunications Programmer[1]
Telecommunications Technician
Telecommunications Technical Engineer[1]
Training Specialist
Web Designer
Web Developer

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
CIS-120	Computer Maintenance and A+ Certification	3
CIS-121	Network Cabling Systems	3
CIS-125	Network+ Certification	3
CS-119	Program Design and Development	3
CS-119L	Program Design and Development Lab	1
Area of Emphasis		
CIS-190	Windows Operating System	3
or CIS-191	Linux Operating System	
CIS-201	Cisco Academy - Introduction to Networking	3
CIS-202	"Cisco Academy - Routing, Switching, and Wireless Essentials"	3
CIS-203	"Cisco Academy - Enterprise Networking, Security, and Automation"	3
CIS-209	Cisco CyberOps	3
or CIS-263	Fundamentals of Network Security	
Select three of the following:		6.5-10
CIS-101	Fundamentals of Information Technology	
CIS-210	Cisco Networking Academy - Voice	
CIS-261	NSSA Degree Capstone	
CIS-264	Ethical Cybersecurity Hacking	
CIS-265	Computer Forensics Fundamentals	
CIS-271	Palo Alto Networks - Certified Network Security Administrator (PCNSA)	
CIS-272	Palo Alto Networks Firewall Configuration, Management, and Threat Prevention	
Total Units		**34.5-38**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the courses required for the major including an area of emphasis qualify for a Certificate in Networking, Security and System Administration - Enterprise Networking. An official request must

be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Networking, Security and System Administration - Enterprise System Administration Associate in Science and Certificate of Achievement

See Business Office Technology for specific Microsoft applications (Word, Excel, PowerPoint, etc.).

These degree programs prepare students for careers in computer networking or system administration and related fields. Upon completion, students may find entry level positions as computer support technicians, junior network administrators, junior system administrators, hardware technicians, data/voice/video cabling technicians, network project managers, designers/estimators or technical support personnel. The major prepares students to work as team members in an information technology group which designs, evaluates, tests, installs and maintains corporate networks. Preparation for the following industry certifications: A+, Network+, Security+, Linux+, Microsoft Certified Technician (MCT) in Windows and Windows Server (active directory, network infrastructure and applications infrastructure), Linux Profession Institute Certification Level 2, Certified Wireless Network Administrator (CWNA), Cisco Certified Network Associate (CCNA), Certified Ethical Hacking (CEH).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Install, configure, upgrade, test, and troubleshoot a personal computer (hardware, system software, and networking hardware and software) and Linux and Windows servers (directory services, networking, print services, server security, remote access, DNS, DHCP, web server, file server, mail server, FTP server, file systems, partitions, logical volumes, server/network performance, and data backup and recovery).

Career Opportunities

Communications Specialist
Computer Game Programmer
Computer Hardware Specialist
Computer Help Desk Technician
Computer Maintenance Technician
Computer Software Technician
Computer Support Specialist
Computer Systems Analyst[1]
Computing Analyst[1]
Cyber Security Specialist
Database Manager[1]
Information Specialist
Information Systems Programmer[1]
LAN/WAN Manager
Manufacturer's Representative
Network Administrator
Network Analyst[1]
Network Consultant
Network Control Technician
Network Training and Support Specialist
Programmer Analyst[1]
Sales and Service
Scientific Programmer[1]
Software Consultant
Software Developer[1]
Systems Analyst[1]
Systems Programmer[1]
Technical Support Representative
Telecommunications Programmer[1]
Telecommunications Technician
Telecommunications Technical Engineer[1]
Training Specialist
Web Designer
Web Developer

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
CIS-120	Computer Maintenance and A+ Certification	3
CIS-121	Network Cabling Systems	3
CIS-125	Network+ Certification	3
CS-119	Program Design and Development	3
CS-119L	Program Design and Development Lab	1
Area of Emphasis		
CIS-190	Windows Operating System	3
CIS-191	Linux Operating System	3
CIS-290	Windows Server-Installing and Configuring	2
CIS-291	Linux System Administration	3
CIS-293	Windows Server-Administering	2
CIS-294	Windows Server-Advanced Configuration	2
Select four of the following:		10-12
CIS-140	Databases	
CIS-162	Technical Diagramming Using Microsoft Visio	
CIS-170	Internet of Things (IoT) - Connecting Things	
CIS-172	Internet of Things (IoT) Security	
CIS-261	NSSA Degree Capstone	
CIS-263	Fundamentals of Network Security	
CIS-264	Ethical Cybersecurity Hacking	
CIS-265	Computer Forensics Fundamentals	
CIS-295	VMware Certified Professional	
Total Units		**38-40**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the courses required for the major including an area of emphasis qualify for a Certificate in Networking, Security and

System Administration - Enterprise System Administration. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Web Development Associate in Science and Certificate of Achievement



This degree program equips students with the essential coding, programming, and design skills needed to build websites and applications for desktop and mobile platforms. Students gain practical experience using state of the art web development technology to prepare for entry-level positions as web developers. The curriculum is continually updated to respond to rapidly changing industry trends.

See Business Office Technology for specific Microsoft applications (Word, Excel, PowerPoint, etc.).

Career Opportunities

Communications Specialist
Computer Game Programmer
Computer Hardware Specialist
Computer Help Desk Technician
Computer Maintenance Technician
Computer Software Technician
Computer Support Specialist
Computer Systems Analyst[1]
Computing Analyst[1]
Cyber Security Specialist
Database Manager[1]
Information Specialist
Information Systems Programmer[1]
LAN/WAN Manager
Manufacturer's Representative
Network Administrator
Network Analyst[1]
Network Consultant
Network Control Technician
Network Training and Support Specialist
Programmer Analyst[1]
Sales and Service
Scientific Programmer[1]
Software Consultant
Software Developer[1]
Systems Analyst[1]
Systems Programmer[1]
Technical Support Representative
Telecommunications Programmer[1]
Telecommunications Technician
Telecommunications Technical Engineer[1]
Training Specialist
Web Designer
Web Developer

[1] Bachelor Degree or higher required.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Develop attractive, usable, mobile-friendly websites using current development technologies such as HTML/CSS, JavaScript, PHP/MySQL, frameworks, and content management systems.

Associate in Science Degree Requirements

Code	Title	Units
CIS-140	Databases	3
CIS-211	Web Development I	3
CIS-213	Web Development II	3
CIS-215	JavaScript Web Programming	3
CIS-219	PHP/MySQL Dynamic Web-based Applications	3
CS-119	Program Design and Development	3
CS-119L	Program Design and Development Lab	1
GD-105	Fundamentals of Digital Media	3
Select one of the following:		1-4
CIS-220	E-Commerce and Web Presence	
CIS-225	Web Development Capstone	
CIS-267	Directed Work Experience in CIS	
Select two of the following:		6-8
CIS-110	Principles of Information Systems	
CIS-191	Linux Operating System	
CS-182	Introduction to Java Programming	
GD-126	Adobe Photoshop Digital Imaging	
GD-130	Professional Business Practices	
GD-217	Web Graphics	
GD-222	Web Animation	
Total Units		**29-34**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Web Development. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Cisco Certified Network Associate Certificate of Specialization



These certificates offer specific training for either entry-level positions or to augment related programs such as Network Administration, Web Development, Business Office Technology or Graphic Design. The

certificates are designed to demonstrate a relatively narrow expertise or skill area that may be used to attain a computer industry "niche" job.

Students who complete the requirements below qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Plan, design, configure, test, and troubleshoot network topologies consisting of routers, switches, wireless routers, and PCs using: the Cisco IOS CLI; ip addressing; interior gateway protocols; HDLC, PPP and Frame-Relay WAN protocols; VLANs; NAT; DHCP; router and switch security techniques.

Certificate Requirements

Code	Title	Units
CIS-201	Cisco Academy - Introduction to Networking	3
CIS-202	"Cisco Academy - Routing, Switching, and Wireless Essentials"	3
CIS-203	"Cisco Academy - Enterprise Networking, Security, and Automation"	3
CIS-209	Cisco CyberOps	3
Total Units		**12**

Computer Programming Certificate of Specialization

These certificates offer specific training for either entry-level positions or to augment related programs such as Network Administration, Web Development, Business Office Technology or Graphic Design. The certificates are designed to demonstrate a relatively narrow expertise or skill area that may be used to attain a computer industry "niche" job.

Students who complete the requirements below qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Be proficient in at least one high-level programming language and an ability to use that language to implement software solutions in a variety of settings following the systems development life cycle (SDLC).

Certificate Requirements

Code	Title	Units
CS-119	Program Design and Development	3
CS-119L	Program Design and Development Lab	1
CS-181	Introduction to C++ Programming	4
or CS-182	Introduction to Java Programming	
CS-281	Intermediate C++ Programming and Fundamental Data Structures	4
or CS-282	Intermediate Java Programming and Fundamental Data Structures	
Total Units		**12**

Computer Support Technician Certificate of Specialization

These certificates offer specific training for either entry-level positions or to augment related programs such as Network Administration, Web Development, Business Office Technology or Graphic Design. The certificates are designed to demonstrate a relatively narrow expertise or skill area that may be used to attain a computer industry "niche" job.

Students who complete the requirements below qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Describe and demonstrate the ability to install, configure, upgrade, diagnose and troubleshoot a personal computer and its associated networking hardware and system software.

Certificate Requirements

Code	Title	Units
CIS-120	Computer Maintenance and A+ Certification	3
CIS-121	Network Cabling Systems	3
CIS-125	Network+ Certification	3
CIS-190	Windows Operating System	3
CIS-191	Linux Operating System	3
Total Units		**15**

Cyber Security Specialist Certificate of Specialization

These certificates offer specific training for either entry-level positions or to augment related programs such as Network Administration, Web Development, Business Office Technology or Graphic Design. The certificates are designed to demonstrate a relatively narrow expertise or skill area that may be used to attain a computer industry "niche" job.

Students who complete the requirements below qualify for a certificate in that area of emphasis. An official request must be filed with the

Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform system scan and reconnaissance to determine vulnerabilities, then create a report showing vulnerabilities and recommendations for rectifying the cited weaknesses.

Certificate Requirements

Code	Title	Units
CIS-125	Network+ Certification	3
CIS-190	Windows Operating System	3
or CIS-191	Linux Operating System	
CIS-209	Cisco CyberOps	3
or CIS-263	Fundamentals of Network Security	
CIS-264	Ethical Cybersecurity Hacking	3
CIS-265	Computer Forensics Fundamentals	3
Total Units		**15**

Web Design Certificate of Specialization

These certificates offer specific training for either entry-level positions or to augment related programs such as Network Administration, Web Development, Business Office Technology or Graphic Design. The certificates are designed to demonstrate a relatively narrow expertise or skill area that may be used to attain a computer industry “niche” job.

Students who complete the requirements below qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Develop attractive, usable, mobile-friendly websites using current development technologies such as HTML/CSS, frameworks, and content management systems.

Certificate Requirements

Code	Title	Units
CIS-211	Web Development I	3
CIS-213	Web Development II	3
CIS-225	Web Development Capstone	3
GD-126	Adobe Photoshop Digital Imaging	3
GD-217	Web Graphics	3
Total Units		**15**

Web Programming Certificate of Specialization

These certificates offer specific training for either entry-level positions or to augment related programs such as Network Administration, Web Development, Business Office Technology or Graphic Design. The certificates are designed to demonstrate a relatively narrow expertise or skill area that may be used to attain a computer industry “niche” job.

Students who complete the requirements below qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Develop attractive, usable, mobile-friendly websites using current development technologies such as HTML/CSS, JavaScript, PHP/MySQL, frameworks, and content management systems.

Certificate Requirements

Code	Title	Units
CIS-211	Web Development I	3
CIS-213	Web Development II	3
CIS-215	JavaScript Web Programming	3
CIS-219	PHP/MySQL Dynamic Web-based Applications	3
CS-119	Program Design and Development	3
Total Units		**15**

Similar Course List

The following Cuyamaca and Grossmont College courses are considered similar enough to be accepted in the major for local computer science degrees in the district. Modification of Major forms are not required.

Cuyamaca Course	Similar Grossmont Course
CIS-110	CSIS-110
CIS-120	CSIS-120
CIS-125	CSIS-125
CIS-140	CSIS-180
CIS-190	CSIS-112
CIS-191	CSIS-113
CIS-211	CSIS-132
CIS-213	CSIS-133
CIS-215	CSIS-135
CIS-263	CSIS-263

CIS-264	CSIS-264
CIS-265	CSIS-265
CIS-290	CSIS-130
CIS-291	CSIS-213
CIS-293	CSIS-230
CS-119	CSIS-119
CS-165	CSIS-165
CS-181	CSIS-296
CS-182	CSIS-293
CS-240	CSIS-240
CS-281	CSIS-297
CS-282	CSIS-294

Computer Science

- Computer Science for Transfer (AS-T) (p. 152)
- Mechatronics Certificate of Achievement (p. 153)

Associate Degree for Transfer℠

Computer Science for Transfer (AS-T)

This program is designed to prepare students for transfer to a California State University (CSU) with the intent of earning a B.S. degree in Computer Science. The coursework provides a strong foundation in programming methodology, programming skills, and computer organization.

Most careers in computer science require a bachelor's degree, and some require a graduate-level degree. Computer science careers include software engineering, computer engineering, computer systems analysis, systems programming, mobile application development, artificial intelligence, robotics, and simulation. Computing technology now is used in most fields. Because of this, a wide range of jobs are open to people trained in Computer Science. Employment opportunities are expected to remain very strong.

A total of 33 units are required to fulfill the major portion of this degree. Students must also complete the California General Education Transfer Curriculum (Cal-GETC) for CSU admission requirements (see the "General Education Requirements and Transfer Information" section of the catalog). Students should speak with a counselor to verify that the requirements for this 2 degree have been met. In addition, students planning to transfer to San Diego State University should consult with a counselor.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Define and apply current Software Engineering design patterns, algorithms, and data structures to produce efficient, well-engineered software applications.
2. Apply problem-solving skills and the knowledge of computer science to solve real-world problems.
3. Define and demonstrate the concept of object oriented programming and object oriented design.

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology	4
CS-165	Assembly Language and Machine Architecture	4
CS-181	Introduction to C++ Programming	4
or CS-182	Introduction to Java Programming	
CS-240	Discrete Structures	3
CS-281	Intermediate C++ Programming and Fundamental Data Structures	4
or CS-282	Intermediate Java Programming and Fundamental Data Structures	
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
PHYC-201	Mechanics and Waves	5
Units for the Major		**33**
Double-Counted Units		10
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		3
Total Units		**60**

Mechatronics Certificate of Achievement

This certificate is designed for students interested in designing automatic electromechanical devices and systems. The curriculum is intended primarily for students interested in working in advanced manufacturing. It also provides the foundation for further studies in the skills required for the Internet of Things (physical computing and control systems).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Write computer programs in high-level languages such as C++ and, when appropriate, in assembly language to control the operation of a microcontroller. In particular, students will be able to apply the following microcontroller capabilities: memory-mapped I/O (input/output), analog-to-digital (A/D) conversion, and volatile and non-volatile memory.
2. Design automatic devices and control systems which can respond to inputs from sensors with appropriate outputs in the form of motion, light, and sound.
3. Design mechanical components and devices, and create prototype versions of them.
4. Combine the above capabilities to design integrated electro-mechanical devices of arbitrary complexity.

Certificate Requirements

Code	Title	Units
CADD-125/ENGR-125	Solid Modeling Design	3
or CADD-129/ENGR-129	Engineering Solid Modeling	
CS-181	Introduction to C++ Programming	4
CIS-267	Directed Work Experience in CIS	1-4
or ENGR-182	Work Experience in Engineering Technology	
ENGR-100	Introduction to Engineering and Design	4
ET-110	Introduction to Electricity and Electronics	4
Total Units		**16-19**

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Mechatronics. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Environmental Health and Safety Management

- Environmental Health and Safety Management (p. 153)
- Environmental Management Associate in Science (p. 154)
- Environmental Technician Certificate of Achievement (p. 154)
- Laboratory Occupational Safety and Health Technician Certificate of Achievement (p. 155)
- Occupational Safety and Health (OSH) Management Associate in Science (p. 155)
- Occupational Safety and Health (OSH) Technician Certificate of Achievement (p. 156)
- Stormwater Management SWRCB Construction Certificate of Specialization (https://gcccd-next.courseleaf.com/cuyamaca/associate-degree-programs-certificates/environmental-applied-technology/environmental-health-safety-management/stormwater-management-swrcb-construction-cert-specialization/)

Environmental Health and Safety Management

Nearly every industry worldwide needs environmental health and safety management. In compliance with federal, state, and local legislation, EHS professionals will support businesses lessening their impact on the environment and reducing risks and hazards in their workplaces. Hazard management includes air, soil, and water pollution, hazardous chemicals and wastes, solid waste, ergonomics, workplace safety, chemical, physical, and biological exposures, noise and lighting hazards, recycling, and sustainability management. EHS also provides emergency response to chemical, biological and nuclear spills and provides compliance with emergency response planning.

The Environmental Health and Safety Management department offers degrees and certificates to provide entry-level skills or upgrade and refine existing skills to perform EHS functions in manufacturing, healthcare, laboratory research, construction, and maritime industries. The programs are specifically designed to prepare students to interpret, analyze and implement various regulations, interpret injury and illness data, and minimize chemical, biological, and physical hazards for employees and the environment. This program emphasizes multicultural applications for training, digital literacy, professional written communications, leadership, and teamwork.

Career Opportunities

Environmental Health and Safety Technician/Specialist
Toxic Waste Specialist
Hazardous Waste Technician
HAZWOPER Emergency Response
Industrial Hygiene Technician
Environmental Compliance
Environmental Protection Specialist
Environmental Research
Stormwater/Wastewater Sampling
Sustainability Technician/Specialist
Air Quality Specialist
Phase 1 Investigator
Phase 2 Sampling Technician
EHS Consultant

COVID-19 Program Management
Environmental Remediation
Risk Management

Environmental Management Associate in Science

California leads the United States in environmental protection and sustainability efforts, creating a demand for environmental technicians and specialists in every region and most industries. Whether serving entry-level students or refining the skills of existing EHS professionals, students in the EHSM department will receive innovative hands-on training, in-depth regulatory comprehension, and work experience in air, water, hazardous waste, solid waste, and pollution prevention topics. The program prepares students in a broad understanding of environmental topics currently affecting the local, state, federal, and global populations while including culturally sensitive management techniques. Graduates earning an associate degree in Environmental Management may work as a technician or specialist serving hazardous waste, solid waste, environmental health and safety, environmental sciences, sustainability, water pollution, and air pollution industries.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements

Code	Title	Units
EHSM-100	Introduction to Environmental and Occupational Safety and Health (OSH) Management	4
EHSM-110	Industrial Sustainability	3
EHSM-150	Hazardous Waste Management Applications	4
EHSM-200	Hazardous Materials Management (HMM) Applications	4
EHSM-210	Industrial Wastewater and Stormwater Management	4
EHSM-215	Air Quality Management	3
EHSM-230	HAZWOPER Certification	3
List A		
Select one of the following:		1-4
EHSM-240	Cooperative Work Experience	
EHSM-250	EHS Field Applications	
List B		
Select either:		4-5
BIOL-C1000	Introduction to Biology With Lab	
or BIO-240	Principles of Ecology, Evolution and Organismal Biology	
List C		
Select one of the following:		4-5
CHEM-120	Preparation for General Chemistry	
CHEM-141	General Chemistry I	
List D		
Select one of the following:		3-5
CIS-110	Principles of Information Systems	
COMM-C1000	Introduction to Public Speaking	
COMM-124	Intercultural Communication	
SPAN-120	Spanish I	
Total Units		**37-44**

Plus General Education Requirements (p. 57)

Environmental Technician Certificate of Achievement

California leads the United States in environmental protection and sustainability efforts, creating a demand for environmental technicians and specialists in every region and most industries. Students in the EHSM department will receive innovative hands-on training, in-depth regulatory comprehension, and work experience in air, water, hazardous waste, solid waste, and pollution prevention topics. The program provides a broad understanding of environmental topics affecting local, state, federal, and global populations while including culturally sensitive management techniques. Graduates earning a Certificate of Achievement may work as an environmental technician serving hazardous waste, solid waste, environmental health and safety, environmental sciences, sustainability, water pollution, and air pollution industries.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry regulations regarding occupational health and safety, and/or environmental standards.

Certificate Requirements

Code	Title	Units
EHSM-100	Introduction to Environmental and Occupational Safety and Health (OSH) Management	4

EHSM-110	Industrial Sustainability	3
EHSM-150	Hazardous Waste Management Applications	4
EHSM-200	Hazardous Materials Management (HMM) Applications	4
EHSM-210	Industrial Wastewater and Stormwater Management	4
EHSM-215	Air Quality Management	3
EHSM-230	HAZWOPER Certification	3
Select one of the following:		1-4
EHSM-240	Cooperative Work Experience	
EHSM-250	EHS Field Applications	
Total Units		**26-29**

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Environmental Technician. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Laboratory Occupational Safety and Health Technician Certificate of Achievement

With thousands of research institutes and industrial biotechnology companies doing business in San Diego, there is now a demand for specifically trained Laboratory Safety Technicians to enter the job market. The EHSM department and industry partners have created robust coursework to meet the needs of laboratory-specific regulations, including hazardous materials and waste management, HAZWOPER certification, and biological, chemical, and radiological regulatory compliance specific to a laboratory setting. Graduates will obtain positions in the laboratory setting as safety technicians, hazardous-waste technicians, environmental technicians, and occupational safety and health technicians.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Identify and interpret Federal, State and local regulations related to Environmental Health and Safety Management in a laboratory setting.
2. Perform laboratory hazard recognition, evaluation and control of chemical, biological and physical hazards.
3. Properly manage EHS programs in a laboratory setting by providing employee training, program audits, and conducting site inspections.

Certificate Requirements

Code	Title	Units
EHSM-130	Environmental & Occupational Health Effects of Hazardous Materials	3
EHSM-140	Laboratory Safety Management	4
EHSM-150	Hazardous Waste Management Applications	4
EHSM-200	Hazardous Materials Management (HMM) Applications	4
EHSM-230	HAZWOPER Certification	3
Select one of the following:		1-4
EHSM-240	Cooperative Work Experience	
EHSM-250	EHS Field Applications	
Total Units		**19-22**

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Laboratory Safety Technician. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Occupational Safety and Health (OSH) Management Associate in Science

Since the beginning of the industrial revolution, there has been a steady increase in workplace injuries, illnesses, and death. California has the second-highest demand for Occupational Safety and Health technicians in the United States. OSH Technicians inspect workplaces, evaluate hazards, train employees, implement personal protective equipment programs, and help employers comply with safety regulations from local, state, and federal regulatory agencies. The EHSM program has developed a broad range of classes to ensure students have experience and in-depth understanding of safety inspections, air, noise, ventilation, radiological and biological testing, ergonomic services, and providing workplace illness and injury programs. We offer specialty courses in construction and laboratory safety. Students completing the associate degree in OSH management will obtain jobs as an Occupational Safety and Health Technician or Specialist, Environmental Safety and Health Technician or Specialist, Safety Technician or Specialist, Industrial Hygiene Technician or Specialist, and Risk Manager.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements

Code	Title	Units
EHSM-100	Introduction to Environmental and Occupational Safety and Health (OSH) Management	4
EHSM-130	Environmental & Occupational Health Effects of Hazardous Materials	3
EHSM-135	General Industry Safety Standards	3
EHSM-200	Hazardous Materials Management (HMM) Applications	4
EHSM-201	Introduction to Industrial Hygiene and Occupational Health	4
EHSM-205	Safety and Risk Management Administration	4
EHSM-230	HAZWOPER Certification	3
List A		
Select one of the following:		3-4
EHSM-140	Laboratory Safety Management	
EHSM-145	Construction Safety Standards	
List B		
Select one of the following:		1-4
EHSM-240	Cooperative Work Experience	
EHSM-250	EHS Field Applications	
List C		
Select either:		4-5
BIOL-C1000	Introduction to Biology With Lab	
or BIO-240	Principles of Ecology, Evolution and Organismal Biology	
List D		
Select one of the following:		4-5
CHEM-120	Preparation for General Chemistry	
CHEM-141	General Chemistry I	
List E		
Select one of the following:		3-5
CIS-110	Principles of Information Systems	
COMM-C1000	Introduction to Public Speaking	
COMM-124	Intercultural Communication	
SPAN-120	Spanish I	
Total Units		**40-48**

Plus General Education Requirements (p. 57)

Occupational Safety and Health (OSH) Technician Certificate of Achievement

Since the beginning of the industrial revolution, there has been a steady increase in workplace injuries, illnesses, and death. California has the second-highest demand for Occupational Safety and Health technicians in the United States. OSH Technicians inspect workplaces, evaluate hazards, train employees, implement personal protective equipment programs, and help employers comply with safety regulations from local, state, and federal regulatory agencies. The EHSM program has developed a broad range of classes to ensure students have experience and in-depth understanding of safety inspections, air, noise, ventilation, radiological and biological testing, ergonomic services, and providing workplace illness and injury programs. We offer specialty courses in construction and laboratory safety. Students completing the Certificate of Achievement in OSH management will obtain jobs as an Occupational Safety and Health Technician, Environmental Safety and Health Technician, Safety Technician, Industrial Hygiene Technician, and Risk Manager.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry regulations regarding occupational health and safety, and/or environmental standards.

Certificate Requirements

Code	Title	Units
EHSM-100	Introduction to Environmental and Occupational Safety and Health (OSH) Management	4
EHSM-130	Environmental & Occupational Health Effects of Hazardous Materials	3
EHSM-135	General Industry Safety Standards	3
EHSM-200	Hazardous Materials Management (HMM) Applications	4
EHSM-201	Introduction to Industrial Hygiene and Occupational Health	4
EHSM-205	Safety and Risk Management Administration	4
EHSM-230	HAZWOPER Certification	3
List A		
Select one of the following:		3-4
EHSM-140	Laboratory Safety Management	
EHSM-145	Construction Safety Standards	

List B		
Select one of the following:		1-4
EHSM-240	Cooperative Work Experience	
EHSM-250	EHS Field Applications	
Total Units		**29-33**

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Occupational Safety and Health (OSH) Technician. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Stormwater Management SWRCB Construction Certificate of Specialization

A Certificate of Achievement in Stormwater Management prepares students to protect stormwater quality within surface waterbodies, habitats, groundwater, and potable water sources. The Certificate of Achievement would serve individuals seeking construction, industrial, agriculture, tribal, and municipal stormwater management and inspector roles. Due to the scarcity of surface and groundwater, protecting the water quality of reservoirs, rivers, estuaries, and other surface water bodies has become a priority within the western United States. California deployed construction and industrial general permit requirements (CGP) and (IGP) for qualified stormwater pollution and prevention plan (SWPPP) developers (QSD) and practitioners (QSP). Further, this new certificate of achievement will serve as foundational education for inspectors, consultants, regulators, and new hires maintaining the Municipal Separate Storm Sewer System (MS4) permit requirements. The program provides management courses and hands-on field experience to establish and maintain all required stormwater programs and permits. Graduates earning a Certificate of Achievement will achieve background education for becoming QSDs and QSPs.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using existing industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers, and coworkers in a workplace setting.
4. Abide by industry regulations regarding occupational health, safety, and/or environmental standards.

Certificate Requirements

Code	Title	Units
EHSM-115	Runoff Sampling for Construction	1
EHSM-117	Stormwater Best Management Practices for Construction	1
EHSM-220	Stormwater Runoff Management Regulatory Concepts	1
EHSM-221	Stormwater Runoff Management Technical Background	1
EHSM-223	Stormwater Runoff Management Construction Inspections	1
EHSM-225	Stormwater Runoff Management Post-Construction Best Management Practice Inspections	1
EHSM-226	Erosion and Sedimentation Concepts	1
EHSM-227	Erosion and Sedimentation Calculations	1
EHSM-228	Stormwater Quality Concepts	1
EHSM-229	Stormwater Quality Calculations	1
Total Units		**10**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Ornamental Horticulture

- Ornamental Horticulture (p. 158)
- Arboriculture Associate in Science and Certificate of Achievement (p. 158)
- Floral Design Associate in Science and Certificate of Achievement (p. 159)
- Floral Design Operations Certificate of Achievement (p. 159)
- Golf Course and Sports Turf Management Associate in Science and Certificate of Achievement (p. 160)
- Irrigation Technology Associate in Science and Certificate of Achievement (p. 160)
- Landscape Architecture Associate in Science and Certificate of Achievement (p. 161)
- Landscape Design Certificate of Achievement (p. 162)
- Landscape Technology Associate in Science and Certificate of Achievement (p. 162)
- Nursery Technology Associate in Science and Certificate of Achievement (p. 163)
- Sustainable Urban Landscapes Associate in Science and Certificate of Achievement (p. 163)
- Basic Ornamental Horticulture Certificate of Specialization (p. 164)

Ornamental Horticulture

This degree program provides students with entry level skills, upgrading of existing skills, and preparation for further training. It is designed for those interested in careers in nursery and greenhouse management, landscape design and construction, grounds management, retail nursery operations, irrigation system design, installation and maintenance of interior plantscaping, arboriculture and other related fields. Students will learn modern horticultural methods and procedures as well as the use of tools and equipment common to the field.

Career Opportunities

Agricultural Inspector[1]
Agricultural Researcher[2]
Arboretum/Park Director[1]
Arboriculture Technician
Botanical Illustrator
County/State Agricultural Advisor[1]
Environmental Designer[2]
Floral Designer
Flower Shop Manager
Golf Course Superintendent
Golf Course Worker
Greenhouse Manager
Grounds Maintenance Manager
Grower/Production Manager
Horticultural Journalist[1]
Irrigation Consultant
Landscape Architect[1]
Landscape Contractor
Landscape Designer
Landscape Technician
Nursery/Garden Center Manager
Park Planner/Manager[1]
Plant Breeder/Propagator
Sports Field Manager
Turf Manager
Urban Forester
Water Auditor
Water Conservationist[1]

[1] Bachelor Degree normally recommended.
[2] Bachelor Degree or higher required.

Arboriculture Associate in Science and Certificate of Achievement

This major encompasses urban forestry, professional tree care, and tree trimming. Students will learn care and pruning of landscape trees, palms and related plants as well as common fruit trees. Course work includes skill development in tree climbing and pruning techniques, basic tree maintenance, and principles of urban forestry. Graduates are employed by private tree care companies, public agencies, landscape contractors, wholesale and retail nurseries, or may be self-employed.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry and government regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements

Code	Title	Units
OH-120	Fundamentals of Ornamental Horticulture	3
OH-130	Plant Pest Control	3
OH-140	Soils	3
OH-170	Plant Materials: Trees and Shrubs	3
OH-260	Arboriculture	3
OH-290	Cooperative Work Experience Education [1]	3
Select two of the following:		2
OH-263	Urban Forestry	
OH-264	Safe Work Practices in Tree Climbing and Arboriculture	
OH-266	Science in Practice for Arboriculture	
Select one of the following:		3
BUS-110	Introduction to Business	
BUS-111	Entrepreneurship: Starting and Developing a Business	
BUS-125	Business Law: Legal Environment of Business	
OH-190	Business Management for Turf and Horticulture	
Select nine units from the following:		9
OH-102	Xeriscape: Water Conservation in the Landscape	
OH-150	Landscape Architecture I	
OH-174	Turf and Ground Cover Management	
OH-221	Landscape Construction: Irrigation	
OH-235	Principles of Landscape Irrigation	
OH-250	Landscape Water Management	
OH-255	Sustainable Urban Landscape Principles and Practices	
OH-275	Diagnosing Horticultural Problems	
SPAN-120	Spanish I	
Total Units		**32**

Plus General Education Requirements (p. 57)

[1] Student must complete six units within the major at Cuyamaca College to be eligible for this course.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Arboriculture. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Floral Design Associate in Science and Certificate of Achievement



This degree program is designed for those individuals seeking careers in the floral industry, or for those seeking to upgrade their existing skills and prepare for further training. Course work is directed toward skills, concepts and practices used in the commercial floral industry with an emphasis in hands-on training. There is also an emphasis on the business skills needed to succeed as a floral industry entrepreneur.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry and government regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements

Code	Title	Units
OH-114	Floral Design I	3
OH-116	Floral Design II	3
OH-117	Wedding Design I	3
OH-118	Special Occasion Floral Design	3
OH-120	Fundamentals of Ornamental Horticulture	3
OH-180	Plant Materials: Annuals and Perennials	3
OH-290	Cooperative Work Experience Education [1]	3
Select one of the following:		3
BUS-110	Introduction to Business	
BUS-111	Entrepreneurship: Starting and Developing a Business	
BUS-125	Business Law: Legal Environment of Business	
Select nine units from the following:		9
ART-120	Two-Dimensional Design	
ART-124	Drawing I	
BUS-111	Entrepreneurship: Starting and Developing a Business	
BUS-128	Business Communication	
OH-121	Plant Propagation	
OH-170	Plant Materials: Trees and Shrubs	
OH-240	Greenhouse Plant Production	
Total Units		**33**

Plus General Education Requirements (p. 57)

[1] Student must complete six units within the major at Cuyamaca College to be eligible for this course.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Floral Design. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Floral Design Operations Certificate of Achievement

The Floral Design Operations Certificate at Cuyamaca College provides students with foundational and advanced skills in floral arrangement, event-specific design, and industry experience.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Create professional floral arrangements using fundamental and advanced design techniques.
2. Design floral compositions for various occasions, including weddings, corporate events, and special celebrations.
3. Apply industry standards in flower selection, handling, and care to ensure quality and longevity.
4. Apply business and customer service skills relevant to the floral industry, including pricing, marketing, and entrepreneurship.
5. Gain hands-on experience through work-based learning, preparing them for employment or entrepreneurship in the floral design field.
6. Understand the principles of small business management, equipping them to start or manage a floral business successfully.

Certificate Requirements

Code	Title	Units
OH-114	Floral Design I	3
OH-116	Floral Design II	3
BUS-110	Introduction to Business	3
or BUS-111	Entrepreneurship: Starting and Developing a Business	
OH-117	Wedding Design I	3
OH-118	Special Occasion Floral Design	3
OH-290	Cooperative Work Experience Education	1-3
Total Units		**16-18**

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Golf Course and Sports Turf Management Associate in Science and Certificate of Achievement

Students in this major pursue careers as golf course superintendents or sports turf managers. The program is intended for those individuals wishing to enter the field as well as those who desire to upgrade their existing skills. Students may also transfer to a four-year degree program in agronomy, turf management, or related field. Course work is designed to study environmentally sound solutions for the efficient production and management of golf and sports turf.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry and government regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements

Code	Title	Units
OH-120	Fundamentals of Ornamental Horticulture	3
OH-130	Plant Pest Control	3
OH-140	Soils	3
OH-170	Plant Materials: Trees and Shrubs	3
OH-174	Turf and Ground Cover Management	3
OH-235	Principles of Landscape Irrigation	4
OH-290	Cooperative Work Experience Education [1]	3
Select one of the following:		3
BUS-110	Introduction to Business	
BUS-111	Entrepreneurship: Starting and Developing a Business	
BUS-125	Business Law: Legal Environment of Business	
Select at least seven units from the following:		7
OH-102	Xeriscape: Water Conservation in the Landscape	
OH-220	Landscape Construction: Concrete and Masonry	
OH-221	Landscape Construction: Irrigation	
OH-250	Landscape Water Management	
OH-265	Golf Course and Sports Turf Management	
OH-275	Diagnosing Horticultural Problems	
SPAN-120	Spanish I	
Total Units		**32**

Plus General Education Requirements (p. 57)

[1] Student must complete six units within the major at Cuyamaca College to be eligible for this course.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Golf Course and Sports Turf Management. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Irrigation Technology Associate in Science and Certificate of Achievement

This specialized field focuses on the design, installation and management of landscape irrigation systems. The program is designed for entry level students, those seeking to upgrade existing skills, or those wishing to transfer to a four-year degree program at Cal Poly or other institution. The use of current design theory, installation techniques, and management programs form the heart of the curriculum. Graduates are employed by landscape architects, irrigation consultants, landscape contractors, public agencies or may be self-employed.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry and government regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements

Code	Title	Units
OH-102	Xeriscape: Water Conservation in the Landscape	2
OH-120	Fundamentals of Ornamental Horticulture	3
OH-140	Soils	3
OH-221	Landscape Construction: Irrigation	2.5

OH-235	Principles of Landscape Irrigation	4
OH-250	Landscape Water Management	2
OH-290	Cooperative Work Experience Education [1]	3
Select one of the following:		3
BUS-110	Introduction to Business	
BUS-111	Entrepreneurship: Starting and Developing a Business	
BUS-125	Business Law: Legal Environment of Business	
Select at least nine units from the following:		9
OH-130	Plant Pest Control	
OH-150	Landscape Architecture I	
OH-170	Plant Materials: Trees and Shrubs	
OH-174	Turf and Ground Cover Management	
OH-200/CADD-200	Introduction to Computer-Aided Landscape Design [2]	
OH-225	Landscape Contracting	
OH-238	Irrigation System Design	
SPAN-120	Spanish I	
Total Units		**31.5**

Plus General Education Requirements (p. 57)

[1] Student must complete six units within the major at Cuyamaca College to be eligible for this course.

[2] May also be offered at Southwestern College as LA 200.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Irrigation Technology. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Landscape Architecture Associate in Science and Certificate of Achievement

The Landscape Architecture major provides students with a multi-disciplined, project-based approach to landscape architecture for residential, public, and commercial sites. The curriculum covers the current trends in design and technologies in construction of the projects. Course work is designed to provide employable technical skill training in the field and provides foundation for students who plan to transfer to four-year degree programs in Landscape Architecture. Students earning an associate degree in Landscape Architecture are eligible to take the Landscape Architecture Registration Exam to achieve state licensure after completing requisite apprenticeship. Graduates may be employed by landscape architects, landscape contractors, public agencies, or may be self-employed.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry and government regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements

Code	Title	Units
CADD-200	Introduction to Computer-Aided Landscape Design	3
or OH-200	Introduction to Computer-Aided Landscape Design	
OH-102	Xeriscape: Water Conservation in the Landscape	2
OH-120	Fundamentals of Ornamental Horticulture	3
OH-150	Landscape Architecture I	3
OH-151	Landscape Architecture II	3
OH-170	Plant Materials: Trees and Shrubs	3
OH-220	Landscape Construction: Concrete and Masonry	3
OH-235	Principles of Landscape Irrigation	4
OH-290	Cooperative Work Experience Education [1]	3
Select one of the following:		3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	
Select at least four units from the following:		4-6
OH-180	Plant Materials: Annuals and Perennials	
OH-201/CADD-201	Advanced Computer-Aided Landscape Design	
OH-221	Landscape Construction: Irrigation	
OH-222	Japanese Garden Design and Construction	
OH-225	Landscape Contracting	
OH-255	Sustainable Urban Landscape Principles and Practices	
OH-263	Urban Forestry	
Total Units		**34-36**

Plus General Education Requirements (p. 57)

[1] Student must complete six units within the major at Cuyamaca College to be eligible for this course.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Landscape Architecture. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Landscape Design Certificate of Achievement

The Landscape Design program provides students with foundational training in the principles and techniques of designing outdoor environments. Focused on residential and small commercial projects, this program emphasizes essential design concepts, plant selection, and fundamental construction methods, with an emphasis on sustainability. Students will gain hands-on experience using both hand-drawn and computer-generated graphics to develop professional-quality landscape plans. The program prepares students for entry-level employment in the landscape design field and serves as a pathway for those interested in further education in Landscape Architecture.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Create detailed and accurate landscape plans utilizing both traditional drawing methods and modern digital rendering techniques that meet industry standards.
2. Effectively convey design ideas to clients and contractors through verbal presentations, hand-drawn illustrations, and computer-generated graphics.
3. Integrate appropriate plant materials, construction techniques, and sustainable practices specifically suited to the Southern California environment.
4. Utilize design and construction principles in practical applications, preparing for employment or further academic pursuits in landscape-related fields.

Certificate Requirements

Code	Title	Units
CADD-200/OH-200	Introduction to Computer-Aided Landscape Design	3
OH-120	Fundamentals of Ornamental Horticulture	3
OH-150	Landscape Architecture I	3
OH-151	Landscape Architecture II	3
OH-170	Plant Materials: Trees and Shrubs	3
OH-235	Principles of Landscape Irrigation	4
Total Units		**19**

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Landscape Technology Associate in Science and Certificate of Achievement

Landscape installation and management forms the focus of this program. Students will learn the latest methods, materials and techniques in the landscape industry. Those seeking careers in landscape technology are entering a challenging career field that requires knowledge of plant material, turfgrass, landscape and irrigation design, soils, pest control and landscape construction. A professional in the field has the opportunity to be involved in working with people as well as plants as the manager must direct and supervise employees, deal with clients and suppliers, and may become involved in professional organizations. Students entering the landscape industry, those already employed but seeking to upgrade their skills, and those wishing to transfer to Cal Poly or other four-year degree programs will benefit from the curriculum. Graduates are employed by landscape contractors, public agencies or may be self-employed.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry and government regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements

Code	Title	Units
OH-120	Fundamentals of Ornamental Horticulture	3
OH-130	Plant Pest Control	3
OH-140	Soils	3
OH-170	Plant Materials: Trees and Shrubs	3
OH-180	Plant Materials: Annuals and Perennials	3
OH-235	Principles of Landscape Irrigation	4
OH-250	Landscape Water Management	2
OH-290	Cooperative Work Experience Education [1]	3
Select one of the following:		3
BUS-110	Introduction to Business	
BUS-111	Entrepreneurship: Starting and Developing a Business	
BUS-125	Business Law: Legal Environment of Business	
OH-190	Business Management for Turf and Horticulture	
Select at least five units from the following:		5-5.5

OH-102	Xeriscape: Water Conservation in the Landscape
OH-150	Landscape Architecture I
OH-151	Landscape Architecture II
OH-174	Turf and Ground Cover Management
OH-220	Landscape Construction: Concrete and Masonry
OH-221	Landscape Construction: Irrigation
OH-222	Japanese Garden Design and Construction
OH-225	Landscape Contracting
OH-255	Sustainable Urban Landscape Principles and Practices
OH-260	Arboriculture
OH-275	Diagnosing Horticultural Problems
SPAN-120	Spanish I
Total Units	**32-32.5**

Plus General Education Requirements (p. 57)

[1] Student must complete six units within the major at Cuyamaca College to be eligible for this course.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Landscape Technology. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Nursery Technology Associate in Science and Certificate of Achievement

Students enrolled in this major pursue careers in the wholesale production and retail sales of horticultural crops. Course work will focus on plant propagation, greenhouse plant production, and horticultural practices related to production and sales of landscape and greenhouse plant material. Students entering the nursery industry, those already employed but seeking upgraded skills, and those wishing to transfer to Cal Poly or other four-year degree programs will benefit from the curriculum. Graduates are employed by wholesale and retail nurseries, public agencies or may be self employed.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry and government regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements

Code	Title	Units
OH-120	Fundamentals of Ornamental Horticulture	3
OH-121	Plant Propagation	3
OH-130	Plant Pest Control	3
OH-140	Soils	3
OH-170	Plant Materials: Trees and Shrubs	3
OH-180	Plant Materials: Annuals and Perennials	3
OH-290	Cooperative Work Experience Education [1]	3
Select one of the following:		3
BUS-110	Introduction to Business	
BUS-111	Entrepreneurship: Starting and Developing a Business	
BUS-125	Business Law: Legal Environment of Business	
OH-190	Business Management for Turf and Horticulture	
Select eight units from the following:		8-9
BIO-122	The Secret Life of Plants	
OH-102	Xeriscape: Water Conservation in the Landscape	
OH-114	Floral Design I	
OH-150	Landscape Architecture I	
OH-240	Greenhouse Plant Production	
SPAN-120	Spanish I	
Total Units		**32-33**

Plus General Education Requirements (p. 57)

[1] Student must complete six units within the major at Cuyamaca College to be eligible for this course.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Nursery Technology. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Sustainable Urban Landscapes Associate in Science and Certificate of Achievement

This curriculum is designed to investigate the current trends and provide practical experience in sustainable landscape design, construction and maintenance. Students will use technology, materials and methods that enhance the urban landscape with minimal input of labor and materials

while reducing negative environmental impacts. Students entering the landscape industry, those already employed but seeking upgraded skills, and those wishing to transfer to four-year degree programs will benefit from the curriculum. Graduates are employed by landscape contractors, landscape architects and designers, public agencies, or are self-employed.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry and government regulations regarding occupational health and safety, and/or environmental standards.

Career Opportunities

Irrigation Manager
Landscape Design Consultant
Landscape Maintenance Supervisor
Landscape Manager
Landscape Water Auditor
Water Conservation Specialist

Associate in Science Degree Requirements

Code	Title	Units
OH-120	Fundamentals of Ornamental Horticulture	3
OH-130	Plant Pest Control	3
OH-140	Soils	3
OH-170	Plant Materials: Trees and Shrubs	3
OH-250	Landscape Water Management	2
OH-255	Sustainable Urban Landscape Principles and Practices	2
OH-263	Urban Forestry	1
OH-290	Cooperative Work Experience Education [1]	3
Select one of the following:		3
BUS-110	Introduction to Business	
BUS-111	Entrepreneurship: Starting and Developing a Business	
BUS-125	Business Law: Legal Environment of Business	
OH-190	Business Management for Turf and Horticulture	
Select at least eight units from the following:		8-8.5
OH-102	Xeriscape: Water Conservation in the Landscape	
OH-150	Landscape Architecture I	
OH-180	Plant Materials: Annuals and Perennials	
OH-220	Landscape Construction: Concrete and Masonry	
OH-221	Landscape Construction: Irrigation	
OH-235	Principles of Landscape Irrigation	
OH-260	Arboriculture	
OH-266	Science in Practice for Arboriculture	
Total Units		**31-31.5**

Plus General Education Requirements (p. 57)

[1] Student must complete six units within the major at Cuyamaca College to be eligible for this course.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Sustainable Urban Landscapes. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Basic Ornamental Horticulture Certificate of Specialization

This certificate prepares students to work in the horticulture industry at an entry or intermediate level by providing them with basic knowledge of horticultural principles and practices. Upon completion, students will be prepared to work in one of many fields of horticulture, or choose to continue their studies and apply their earned credits to a degree or certificate of achievement.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Perform work-related functions according to current industry standards.
2. Assess and resolve work-related problems using current industry-specific tools and resources.
3. Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
4. Abide by industry and government regulations regarding occupational health and safety, and/or environmental standards.

Certificate Requirements

Code	Title	Units
OH-120	Fundamentals of Ornamental Horticulture	3
OH-170	Plant Materials: Trees and Shrubs	3
Select one of the following:		3
OH-130	Plant Pest Control	
OH-140	Soils	
OH-180	Plant Materials: Annuals and Perennials	
Select one of the following:		3
BUS-110	Introduction to Business	
BUS-111	Entrepreneurship: Starting and Developing a Business	
BUS-125	Business Law: Legal Environment of Business	

OH-190	Business Management for Turf and Horticulture	
Select at least three units from the following:		3
OH-114	Floral Design I	
OH-121	Plant Propagation	
OH-150	Landscape Architecture I	
OH-174	Turf and Ground Cover Management	
OH-220	Landscape Construction: Concrete and Masonry	
OH-221	Landscape Construction: Irrigation	
OH-260	Arboriculture	
Total Units		**15**

Certificate of Specialization

Students who complete the requirements above qualify for a Certificate in Basic Ornamental Horticulture. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Surveying

- Surveying Associate in Science and Certificate of Achievement (p. 165)
- Unmanned Aerial System (Drone) Technologies Certificate of Specialization (p. 165)

Surveying Associate in Science and Certificate of Achievement

This degree program prepares students to enter the civil engineering field. Competency in care and operation of field instruments, solution of problems in the laboratory, drafting of land survey maps and civil engineering plans, and application of studies to field practice are thoroughly explored.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Measure angles and distances using electronic total stations and distance meters.
2. Compile field data, adjusting for error from horizontal and vertical traverses.
3. Create typical drawing title blocks accepted by local municipalities such as the City of San Diego.
4. Calculate and plot contours and other features found on a topographic map.
5. Plot easements using bearings, distances and curve information.
6. Recognize and apply the appropriate vocabulary of boundary law in discussion, reading, and writing legal descriptions of boundary.
7. Describe and solve advanced private boundary and public lands boundary problems.
8. Solve introductory property boundaries using title reports and record maps.

Career Opportunities

Geodetic Surveyor
Geophysical Prospecting Surveyor
Instruments Surveyor Assistant
Land Surveyor
Marine Surveyor
Mine Surveyor
Oil-Well Directional Surveyor

Associate in Science Degree Requirements

Code	Title	Units
CADD-115	Engineering Graphics	3-4
or ENGR-100	Introduction to Engineering and Design	
CADD-119	Introduction to Computer Aided Drafting and Design	3
or ENGR-119	Introduction to Computer Aided Drafting and Design	
SURV-127/CADD-127	Survey Drafting Technology	3
PHYC-110	Introductory Physics	4
SURV-218/ENGR-218	Plane Surveying	4
SURV-220	Boundary Control and Legal Principles	3
SURV-240	Advanced Surveying	4
Total Units		**24-25**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Surveying. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Unmanned Aerial System (Drone) Technologies Certificate of Specialization

The certificate will train students in the use of drones/UAVs/UASs in the field of surveying. The certificate begins with familiarizing students with drones and the basics of the surveying field. By the end of the certification, students will have demonstrated their ability to identify, plan, execute, and complete a surveying project using drones. Students who have completed the certification will be ready to begin working in industry immediately. Additionally, students will be able to either continue

their education or use work experience to advance themselves towards their Land Surveyor-in-Training (LSIT) Certification and Professional Land Surveyor (PLS) Licensure from the Board for Professional Engineers, Land Surveyors, and Geologists (BPELSG).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Create surveying deliverables using drones/UAVs/UASs for industry use.

Certificate of Specialization Requirements

Code	Title	Units
SURV-100	"Unmanned Aerial System (Drone) Technologies: Safety, Assembly, and Basic Flight"	3
SURV-101	Unmanned Aerial System (Drone) Technologies: Data Acquisition and Advanced Flight	3
SURV-102	Unmanned Aerial System (Drone) Technologies: Mapping and Surveying Deliverables	3
SURV-218	Plane Surveying	4
Total Units		**13**

Certificate of Specialization

Students who complete only the major requirements above qualify for a Certificate of Specialization. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Health Sciences



- Biological Sciences: Pre-Allied Health Associate in Science (p. 167)
- General Studies: Lifelong Health, Well-Being and Self-Development (p. 167)
- Kinesiology (p. 168)
- Public Health for Transfer (AS-T) (p. 171)

Biological Sciences: Pre-Allied Health Associate in Science



This program provides students with a pathway into allied health programs at baccalaureate institutions. Required science courses provide training in the methods of scientific inquiry, the fundamental principles of natural science, and the principle laws and theories governing the physical and life sciences. Recommended general education courses expose students to the necessary base of knowledge that will serve them well in any of the allied health fields. This degree prepares students for transfer to a baccalaureate institution or for advanced studies in an allied health major. Prior to enrolling in several courses in this major, students must take general biology and general biology laboratory as prerequisites. ***It is recommended that students check with transfer institutions for specific program requirements.***

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain core principles of human biology and disease, including scientific inquiry and organism structure/function.
2. Integrate principles and skills in human health, including anatomy, physiology, microbiology, and chemistry as applied to healthcare settings.
3. Apply professional skills for healthcare practice, including effective communication, technology utilization, and collaborative investigation.
4. Synthesize content, skills, and knowledge from coursework to practice self-directed, lifelong learning.

Associate in Science Degree Requirements

Code	Title	Units
BIO-140	Human Anatomy	4
BIO-141	Human Physiology	3
BIO-141L	Laboratory in Human Physiology	1
BIO-152	Paramedical Microbiology	5
CHEM-102	Introduction to General, Organic and Biological Chemistry	5
COMM-C1000	Introduction to Public Speaking	3
PSYC-C1000	Introduction to Psychology	3
SOCI-C1000	Introduction to Sociology	3
Total Units		**27**

Plus General Education Requirements (p. 57)

Recommended Electives: CDEV-C1000 Child Growth and Development or PSY-150 Developmental Psychology; STAT-C1000 Introduction to Statistics

General Studies: Lifelong Health, Well-Being and Self-Development



The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

Requirements

To meet the General Studies degree requirements, a student must complete the following:

I. **AS or AA General Education Requirements** (see Degree Requirements and Transfer Information section)
and

II. **Choose a minimum of 18 units**
Students must take a minimum of three units in Health, three units in Exercise Science, three units in Nutrition, and three units in Self-Development. The remaining six units may be taken from any category. A maximum of one course may be earned from any combination of ES-206 Intercollegiate Basketball, ES-209 Intercollegiate Cross Country, ES-213 Intercollegiate Golf, ES-218 Intercollegiate Soccer, ES-224 Intercollegiate Tennis, ES-227 Intercollegiate Track, ES-230 Intercollegiate Volleyball and ES-249 Competencies for Intercollegiate Athletes.

The Associate in Arts in General Studies with an Emphasis in Lifelong Health, Well-Being and Self-Development will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses focus on the improvement of health and well-being and are designed to provide knowledge and tools of how to obtain optimal physical, psychological and emotional health and well-being throughout the lifespan. Potential entry-level positions of employment that students will be prepared for upon completion include those in recreation, education, and health fields.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Illustrate examples of optimal health and fitness in daily life through informed decision-making.
2. Describe basic principles of nutrition.
3. Explain the importance of physical activity through the lifespan.

Code	Title	Units
Health		
HED-105	Health Education for Teachers	1
HED-120	Personal Health and Lifestyles	3
HED-201	Introduction to Public Health	3
HED-202	Health Professions and Organizations	3
HED-203	Substance Abuse and Public Health	3
HED-204	Health and Social Justice	3
HED-251	Healthy Lifestyles: Theory and Application	3
Exercise Science		
ES-206	Intercollegiate Basketball	3
ES-209	Intercollegiate Cross Country	3
ES-213	Intercollegiate Golf	3
ES-218	Intercollegiate Soccer	3
ES-224	Intercollegiate Tennis	3
ES-227	Intercollegiate Track	3
ES-230	Intercollegiate Volleyball	3
ES-248	Conditioning for Intercollegiate Athletes	1
ES-249	Competencies for Intercollegiate Athletes	2-4
ES-250	Introduction to Kinesiology	3
ES-253	Physical Education in Elementary Schools	3
ES-255	Care and Prevention of Athletic and Recreational Injuries	3
ES-271	Fitness Walking with Children	1
ES-272	Issues in Childhood Obesity	1
Nutrition		
NUTR-155	Introduction to Nutrition	3
NUTR-158	Nutrition for Fitness and Sports	3
NUTR-255	Science of Nutrition	3
Self-Development		
COUN-110	Career Decision Making	1
COUN-120	College and Career Success	3
COUN-125	Career Development in a Multicultural Society	3
COUN-130	Study Skills and Time Management	1
COUN-135	Counseling and Identity in a Modern Multicultural Society	3
COUN-140	Self Awareness and Interpersonal Relationships	3
COUN-150	Transfer Success	1

Kinesiology

- Kinesiology for Transfer (AA-T) (p. 168)
- Exercise Science Associate in Science (p. 169)
- Recreational Leadership–School-Based Programs Certificate of Specialization (p. 170)
- Yoga Instructor 200 Hour Certificate of Specialization (p. 171)

Associate Degree for Transfer℠

Kinesiology for Transfer (AA-T)

The Associate in Arts in Kinesiology for Transfer degree is designed to prepare students for transfer to a California State University (CSU) by fulfilling lower-division requirements for the disciplines of Kinesiology, Exercise Science and Physical Education. This major provides preparation for careers in physical therapy, coaching, personal training, and other allied health professions by including classes oriented toward fitness, wellness, and health promotion throughout the lifespan.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Apply core concepts of kinesiology and exercise science including biomechanics,
anatomy, physiology, and motor learning, to analyze human movement and physical
activity.
2. Demonstrate and evaluate movement competence in physical activity, fitness and sport,
using scientific reasoning and discipline-appropriate evidence.
3. Analyze the physiological, psychological, and sociocultural dimensions of physical
activity and sport across diverse populations.
4. Communicate kinesiology-related analysis using discipline-appropriate methods and
evidence, including interpreting data and evaluating research findings
5. Identify and discuss an upper-division kinesiology-related pathway, including necessary
coursework and transfer requirements to support academic and/or career goals.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
BIO-140	Human Anatomy	4
BIO-141	Human Physiology	3

BIO-141L	Laboratory in Human Physiology	1
ES-250	Introduction to Kinesiology	3
Movement Based Courses		
Select one course from three different areas for a minimum of three units:		3-4
Combatives		
ES-180	Self Defense for Women	
Fitness		
ES-009A	Beginning Cardio Dance Exercise	
ES-009B	Intermediate Cardio Dance Exercise	
ES-014A	Beginning Body Building	
ES-014B	Intermediate Weight Training	
ES-019A	Beginning Physical Fitness	
ES-019B	Intermediate Physical Fitness	
ES-024A	Beginning Fitness Boot Camp	
ES-024B	Intermediate Fitness Boot Camp	
ES-028A	Beginning Yoga	
ES-028B	Intermediate Yoga	
Individual Sports		
ES-060A	Beginning Badminton	
ES-060B	Intermediate Badminton	
ES-076A	Beginning Tennis	
ES-076B	Intermediate Tennis	
Team Sports		
ES-155A	Beginning Basketball	
ES-155B	Intermediate Basketball	
ES-170A	Beginning Soccer	
ES-170B	Intermediate Soccer	
ES-175A	Beginning Volleyball	
ES-175B	Intermediate Volleyball	
List A		
CHEM-102	Introduction to General, Organic and Biological Chemistry	5
or CHEM-141	General Chemistry I	
STAT-C1000	Introduction to Statistics	4
or PSY-215	Statistics for the Behavioral Sciences	
Units for the Major		**23-24**
Double-Counted Units		10
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		12-13
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into Exercise Science Generalist.

Exercise Science Associate in Science

This degree program is designed to prepare students for a variety of careers including education, physical therapy, coaching, personal training and other allied health professions by providing classes oriented toward fitness, wellness and health promotion throughout the lifespan. The major also provides preparation for transfer to a four-year college in physical education, exercise physiology, kinesiology, nutrition or athletic training, as well as teacher credentialing programs.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate movement competence through application of foundational exercise science principles such as specificity, overload, progression, adaptation, and recovery as they relate to physical fitness and sport.
2. Design and evaluate exercise plans using evidence-informed strategies to improve
   physical fitness components, including body composition, cardiovascular endurance, flexibility, muscular strength, and muscular endurance.
3. Analyze factors that influence physical activity participation, including lifestyle, health status, injury prevention, accessibility, and community resources.
4. Interpret and use evidence-based fitness- and health-related information, including introductory nutritional and wellness guidance, to improve quality of life.
5. Explain personal, academic, educational, and/or certification pathways related to exercise science and articulate a preliminary personal, academic, and/or professional plan.

Career Opportunities

Aerobics Instructor
Athletics Coach
Athletics Trainer[1]
Cardiovascular Rehabilitation[1]
College Professor[1]
Elementary School Teacher[1]
Exercise Physiologist[1]
Health Club Manager[1]
Personal Trainer
Physical Therapist/ Assistant[1]
Registered Dietician[1]
Secondary School Teacher[1]
Teaching[1]

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
BIOL-C1000	Introduction to Biology With Lab	4
BIO-140	Human Anatomy	4
COMM-C1000	Introduction to Public Speaking	3
ES-250	Introduction to Kinesiology	3
ES-255	Care and Prevention of Athletic and Recreational Injuries	3
PSYC-C1000	Introduction to Psychology	3
SOCI-C1000	Introduction to Sociology	3
Select one of the following:		4-5
CHEM-102	Introduction to General, Organic and Biological Chemistry	
CHEM-120	Preparation for General Chemistry	
CHEM-141	General Chemistry I	
Select one of the following:		1.5
ES-014A	Beginning Body Building	
ES-014B	Intermediate Body Building	
ES-014C	Advanced Body Building	
ES-019A	Beginning Physical Fitness	
ES-019B	Intermediate Physical Fitness	
ES-019C	Advanced Physical Fitness	
Select one of the following:		3
NUTR-158	Nutrition for Fitness and Sports	
NUTR-255	Science of Nutrition [1]	
Select one of the following:		4
PSY-215	Statistics for the Behavioral Sciences	
STAT-C1000	Introduction to Statistics	
Select two of the following (fulfills the activity requirement for the associate degree):		2-3
ES-001	Adapted Physical Exercise	
ES-009A	Beginning Aerobic Dance Exercise	
ES-009B	Intermediate Aerobic Dance Exercise	
ES-009C	Advanced Aerobic Dance Exercise	
ES-019A	Beginning Physical Fitness	
ES-019B	Intermediate Physical Fitness	
ES-019C	Advanced Physical Fitness	
ES-028A	Beginning Yoga	
ES-028B	Intermediate Yoga	
ES-028C	Advanced Yoga	
ES-060A	Beginning Badminton	
ES-060B	Intermediate Badminton	
ES-060C	Advanced Badminton	
ES-061A	Beginning Pickleball	
ES-061B	Intermediate Pickleball	
ES-061C	Advanced Pickleball	
ES-076A	Beginning Tennis	
ES-076B	Intermediate Tennis	
ES-076C	Advanced Tennis	
ES-155A	Beginning Basketball	
ES-155B	Intermediate Basketball	
ES-155C	Advanced Basketball	
ES-170A	Beginning Soccer	
ES-170B	Intermediate Soccer	
ES-170C	Advanced Soccer	
ES-175A	Beginning Volleyball	
ES-175B	Intermediate Volleyball	
ES-175C	Advanced Volleyball	
Total Units		**37.5-39.5**

[1] Students planning to transfer to SDSU must take NUTR-255 Science of Nutrition.

Plus General Education Requirements (p. 57)

Recreational Leadership–School-Based Programs Certificate of Specialization



This certificate offers specific training for entry-level positions or for advancement in child care and outdoor programs for children and families. It is designed to demonstrate an area of expertise that may be used to attain employment in areas of school-based recreation and fitness programs.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Describe and or demonstrate an hour of cooperative activity for children.
2. Describe how principles learned in class may be applied to improve cardiovascular endurance, muscle strength, muscle endurance, and flexibility and body composition, (the five basic components of fitness) in children using walking as a primary conditioning activity.
3. Investigate and list causes and risk factor associated with childhood obesity.
4. Describe and prepare appropriate snacks for children.
5. Demonstrate appropriate classroom organizational and management techniques.
6. Demonstrate the ability to plan school-based recreational programs which deliberately intend to advance, stimulate or otherwise enhance children's physical, emotional and social development in ways which are appropriate to their developmental level.
7. Describe tested and proven teaching approaches to analyze and enhance movement competencies.

Career Opportunities

Students may find positions in an elementary or middle school, YMCA, recreation center, day or residential camp, or after school day care program. This is a great "stepping-stone" training for those who want to major in exercise science, recreation, elementary education or child

development. Provides students with the expertise to enter the entry-level job market with knowledge of sound principles of fitness and developmentally appropriate recreation.

Students who complete the requirements below and hold a current First Aid/CPR certification qualify for a Certificate in Recreational Leadership–School-Based Programs. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Certificate Requirements

Code	Title	Units
CDEV-C1000	Child Growth and Development	3
CD-134	Health, Safety and Nutrition of Young Children	3
ES-253	Physical Education in Elementary Schools	3
ES-271	Fitness Walking with Children	1
ES-272	Issues in Childhood Obesity	1
Total Units		**11**

Yoga Instructor 200 Hour Certificate of Specialization

The Yoga Instructor 200hr Certificate prepares students to meet the Yoga Alliance standard for Registered Yoga Teacher (RYT 200) certification. The program provides foundational knowledge in anatomy, physiology, alignment principles, and yoga philosophy, integrating both English and Sanskrit terminology. Students gain practical experience in sequencing, cueing, and adapting yoga practices for diverse populations. Completion of the program prepares students for employment in yoga studios, fitness centers, and community wellness settings, or for self-employment as yoga instructors.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Design and lead inclusive, safe, and well-sequenced yoga classes that integrate proper alignment, modifications, and effective communication techniques.
2. Apply foundational knowledge of anatomy, physiology, and body mechanics to support functional movement and mindful practice.
3. Integrate core concepts of yoga philosophy, history, and ethics into personal practice and professional teaching.
4. Demonstrate competency in guiding pranayama, meditation, and mindfulness practices to promote self-awareness and balance.
5. Exhibit professionalism and reflective teaching skills consistent with Yoga Alliance standards for a Registered Yoga Teacher (RYT-200).

Certificate Requirements

Code	Title	Units
ES-028A	Beginning Yoga	1.5
ES-280	Yoga Teacher Training Foundation	3
ES-281	Yoga Teacher Training Cultivation	3
Total Units		**7.5**

Certificate of Specialization

Students who complete the requirements above qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Associate Degree for Transfer℠

Public Health for Transfer (AS-T)

The Associate in Science in Public Health for Transfer provides a broad exposure to the field of public health and related disciplines. Upon completion of this degree, students will be able to recognize effective strategies aimed at reducing threats to the health of our communities and the public at large. The program lays the foundation for student preparation in development, implementation, and evaluation of public health services in various settings and with diverse populations.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of “C” or higher or “Pass” in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Outline strategies for prevention, detection and control of infectious and chronic disease.
2. Describe the organization, financing and delivery of various medical and population-based services in the United States health care system.
3. Explain the role of Public Health in addressing the following issues: disparities among different populations, aging, injuries, obesity, control of emerging diseases and epidemics, and emergency preparedness.
4. Analyze reliable public data sources to find statistical and epidemiologic data on incidence, prevalence, and trends in drug, tobacco and alcohol use.
5. Review recent public health literature detailing ways that race, socioeconomic status and gender become embodied in disparate health outcomes.

6. Analyze the contribution of environmental conditions to disparate health outcomes, using case studies.

Career Opportunities

Career opportunities in Public Health are varied, but consist primarily of administration[1], teaching[1], research[1], program planning[1], health promotion[1], outreach, and administrative assistance duties in the following contexts:

Government agencies
Private Volunteer agencies
Hospitals
Clinics
International Relief programs
Environmental Health programs
Occupational Health programs

[1] Bachelor degree or higher recommended.

Associate in Science for Transfer Degree Requirements

Code	Title	Units
Core Curriculum Requirements		
BIOL-C1000	Introduction to Biology With Lab	4
HED-120	Personal Health and Lifestyles	3
HED-201	Introduction to Public Health	3
STAT-C1000	Introduction to Statistics	4
List A		
Select one of the following:		4-5
BIO-140	Human Anatomy	
BIO-141 & BIO-141L	Human Physiology and Laboratory in Human Physiology	
BIO-152	Paramedical Microbiology	
List B		
Select one of the following:		3
HED-204	Health and Social Justice	
List C		
Select one of the following:		3
HED-202	Health Professions and Organizations	
HED-203	Substance Abuse and Public Health	
PSY-134	Human Sexuality	
Units for the Major		**24-25**
Double-Counted Units		10-13
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		11-15
Total Units		**60**

Language and Communication



- American Sign Language (p. 173)
- Arabic Studies Associate in Arts and Certificate of Achievement (p. 174)
- Communication (p. 175)
- English (p. 176)
- General Studies: Communication and Language Arts (p. 178)
- Spanish (p. 179)
- University Studies: Communication and Language Arts (p. 180)

American Sign Language



- American Sign Language Associate in Arts (p. 173)
- American Sign Language Certificate of Achievement (p. 173)

American Sign Language Associate in Arts



The Associate in Arts in American Sign Language is designed for students who want to acquire advanced expressive and receptive signing skills, as well as develop a greater awareness of the Deaf community and Deaf culture. The emphasis is on paraprofessional vocations and preparation for continued study in the subject. Upon completion, students may wish to transfer to an Interpreter Certification, American Sign Language, or Deaf Studies program or a four year university to continue their studies.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate conversational fluency. Students will be able to engage in rich dialogue exchanges and share advanced narratives and complex concepts using ASL.
2. Comprehend and use grammar structures and conventions as they apply to dialogue exchanges.
3. Demonstrate an understanding of Deaf culture, cultural behaviors, values and norms; clearly explain cultural tenets and interact comfortably and appropriately with Deaf people and the cultural community in a wide range of settings, from personal to professional.
4. Demonstrate an understanding of Deaf history, and the significant accomplishments and shifts over time related to the cultural community, medical, technology and education domains.

Career Opportunities

Case Worker
Child Care Worker
Communication Disorders Aide
Early Childhood Education Intervention Aide
Educational Classroom Aide
Educational Counselor[1]
Interpreter[2]
Preschool Aide
Program Coordinator[1]
Rehabilitation Counselor[1]
Social Work[1]
Social Work Aide
Special Education Classroom Aide
Teacher[1]

[1] Bachelor degree or higher required.
[2] Certification required.

Associate in Arts Degree Requirements

Code	Title	Units
ASL-120	American Sign Language I	4
ASL-121	American Sign Language II	4
ASL-130	American Sign Language: Fingerspelling	3
ASL-140	Inside Deaf Culture	3
ASL-220	American Sign Language III	4
ASL-221	American Sign Language IV	4
Select one unit from the following:		1
ASL-125	American Sign Language with Infants and Toddlers	
ASL-126	American Sign Language With School Age Children	
Total Units		**23**

Plus General Education Requirements (p. 57)

American Sign Language Certificate of Achievement



This certificate is designed for students who want to acquire advanced expressive and receptive signing skills, as well as develop a greater awareness of the Deaf community and Deaf culture. The emphasis is on paraprofessional vocations and preparation for continued study in the subject. Upon completion, students may wish to transfer to an Interpreter Certification, American Sign Language, or Deaf Studies program or a four year university to continue their studies. It is recommended that students interested in this certificate contact the department faculty.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate the acquisition of expressive skills by translating and performing a five-minute song or story in American Sign Language.

2. Demonstrate the acquisition of receptive skills by answering comprehension questions based on a three minute signed presentation with 80 percent accuracy.
3. Compare and contrast American Deaf cultural traditions with American hearing cultural traditions.
4. Describe the evolution of medical technology in the Deaf community.
5. Demonstrate the use of current communication technology as used by the Deaf Community, e.g., videophones.

Certificate Requirements

Code	Title	Units
ASL-120	American Sign Language I	4
ASL-121	American Sign Language II	4
ASL-220	American Sign Language III	4
ASL-221	American Sign Language IV	4
Select five to six units from the following:		5-6
ASL-125	American Sign Language with Infants and Toddlers	
ASL-126	American Sign Language With School Age Children	
ASL-130	American Sign Language: Fingerspelling	
ASL-140	Inside Deaf Culture	
Total Units		**21-22**

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in American Sign Language. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Arabic Studies Associate in Arts and Certificate of Achievement



The Associate in Arts in Arabic Studies is designed to provide a greater understanding of Arabic language, history, culture and heritage, with particular emphasis on reading, writing and speaking the Arabic language. The Arabic Studies degree prepares students for career opportunities that require competency in the Arabic language. Through specific coursework for this degree, students will have a deeper appreciation and understanding of Arabic heritage and civilization.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate clearly and effectively in a variety of media and/or contexts (speech, writing, and/or sign language).
2. Apply discipline-specific theories about language and communication to students' own practice or work.
3. Navigate norms related to communicating in diverse environments, including professional, intercultural, and/or specialized settings.

Associate in Arts Degree Requirements

Code	Title	Units
ARBC-120	Arabic I	5
ARBC-121	Arabic II	5
ARBC-130	Arabic Literature and Culture	3
ARBC-145	Arabic Civilizations	3
ARBC-180/BOT-180	Basic Computer Skills for Arabic Learners	1
ARBC-251	Conversational Arabic II	3
List A		
Select one of the following:		5
ARBC-122	Arabic for the Arabic Speaker I	
ARBC-220	Arabic III	
List B		
Select one of the following:		5
ARBC-123	Arabic for the Arabic Speaker II	
ARBC-221	Arabic IV	
List C		
Select one of the following:		3
ARBC-250	Conversational Arabic I	
ARBC-254	Conversational Iraqi Dialect	
ARBC-256	Conversational Levantine Dialect	
Total Units		**33**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Arabic Studies. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Communication



- Communication Studies 2.0 for Transfer (AA-T) (p. 175)
- Communication Associate in Arts (p. 175)



Communication Studies 2.0 for Transfer (AA-T)



This degree program is designed to provide students with a broad base of communication courses that provide training for entry into occupations in which public contact and verbal skills are important. Students will explore and analyze verbal communication methods, as well as develop and advance their oral communication skills. Students completing this degree may be interested in pursuing careers in community service, sales, performing arts, teaching, and other communication professions.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Research, write and deliver an effective public speech.
2. Critically analyze, critique and synthesize arguments and information.
3. Communicate clearly and effectively in a variety of media and/or contexts.
4. Apply discipline-specific theories about language and communication to students' own practice or work.
5. Navigate norms related to communicating in diverse environments, including professional, intercultural, and/or specialized settings.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
COMM-C1000	Introduction to Public Speaking	3
COMM-C1004	Interpersonal Communication	3
List A		
Select three of the following:		9
COMM-110	Introduction to Mass Communication	
COMM-124	Intercultural Communication	
COMM-137	Critical Thinking in Group Communication	
COMM-145	Argumentation	
List B		
Select one of the following:		3
COMM-123	Advanced Public Speaking	
ENGL-C1001	Critical Thinking and Writing	
Any course from List A not selected above		
Units for the Major		**18**
Double-Counted Units		6-9
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		14-17
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into the Health Communication Major and the Communication Major in Applied Arts and Sciences emphases.

Communication Associate in Arts



This degree program is designed to provide students with a broad base of communication classes that provide training for entry into occupations in which verbal skills are important. Major requirements for the four-year degree in Communication vary from institution to institution. It is recommended that students check with transfer institutions for specific requirements.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Research, write and deliver an effective public speech.
2. Critically analyze, critique and synthesize arguments and information.
3. Communicate clearly and effectively in a variety of media and/or contexts.
4. Apply discipline-specific theories about language and communication to students' own practice or work.
5. Navigate norms related to communicating in diverse environments, including professional, intercultural, and/or specialized settings.

Career Opportunities

Training
Education
Consulting
Human Resources
Public Relations
Sales

Communication graduates often pursue additional degrees in fields such as law, political science, management, and marketing.

Associate in Arts Degree Requirements

Code	Title	Units
COMM-C1000	Introduction to Public Speaking	3
COMM-C1004	Interpersonal Communication	3
List A: Select two from the following:		6
COMM-123	Advanced Public Speaking	
COMM-137	Critical Thinking in Group Communication	
COMM-145	Argumentation	
List B: Select two from the following:		6
COMM-110	Introduction to Mass Communication	
COMM-124	Intercultural Communication	
Any course not selected from list A above		
Total Units		**18**

Plus General Education Requirements (p. 57)

English

- English for Transfer (AA-T) (p. 176)
- English Associate in Arts and Certificate of Achievement (p. 177)
- Creative Writing Certificate of Achievement (p. 178)

Associate Degree for Transfer℠

English for Transfer (AA-T)

The English Department at Cuyamaca College provides students in the local community an opportunity to develop the skills a wide range of employers seek: strong communication, analytical reading, critical thinking, attention to detail, and the ability to work in diverse teams. The department encourages students to engage deeply with literature and nonfiction texts as well as other forms of cultural production, and to account for how those texts inform our ideologies, norms, and values.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate clearly and effectively in a variety of media and/or contexts.
2. Apply discipline-specific theories about language and communication to students' own practice or work.
3. Navigate norms related to communicating in diverse environments, including professional, intercultural, and/or specialized settings.
4. Develop and support an original argument or interpretation with analysis of relevant evidence.
5. Analyze how authors use language and/or texts to illuminate, critique, and/or shape reality.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
ENGL-C1001	Critical Thinking and Writing	3
ENGL-C1002	Introduction to Literature	3
List A		
Select two of the following:		6
ENGL-221	British Literature I	
ENGL-222	British Literature II	
ENGL-231	American Literature I	
ENGL-232	American Literature II	
ENGL-271	World Literature II	
List B		
Select one of the following:		3
ENGL-126	Introduction to Creative Writing	
ENGL-202	Introduction to Film as Literature	
ENGL-217	Fantasy and Science Fiction	
Any course from List A not selected above		
List C		
Select one of the following:		3-5
ENGL-201	Women, Gender, and Sexuality in Literature	
ENGL-236	Chicana/o Literature	
or ETHN-236	Chicana/o Literature	
ENGL-238	Black Literature	
or ETHN-238	Black Literature	
ARBC-121	Arabic II	
ARBC-130	Arabic Literature and Culture	
ARBC-220	Arabic III	
ARBC-221	Arabic IV	
SPAN-121	Spanish II	
SPAN-220	Spanish III	
SPAN-221	Spanish IV	
Any course from Lists A or B not selected above		
Units for the Major		**18-20**
Double-Counted Units		6-9
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		12-17
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into English-Applied Arts and Sciences major.

English Associate in Arts and Certificate of Achievement



This major fulfills lower division requirements at most four-year colleges and universities and thus provides a broad-based foundation for transfer. For particular requirements, transfer students should consult the appropriate four-year college or university catalog.

The English Department at Cuyamaca College provides students in the local community an opportunity to develop the skills a wide range of employers seek: strong communication, analytical reading, critical thinking, attention to detail, and the ability to work in diverse teams. The department encourages students to engage deeply with literature and nonfiction texts as well as other forms of cultural production, and to account for how those texts inform our ideologies, norms, and values.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate clearly and effectively in a variety of media and/or contexts.
2. Apply discipline-specific theories about language and communication to students' own practice or work.
3. Navigate norms related to communicating in diverse environments, including professional, intercultural, and/or specialized settings.
4. Develop and support an original argument or interpretation with analysis of relevant evidence.
5. Analyze how authors use language and/or texts to illuminate, critique, and/or shape reality.

Career Opportunities

English majors have gone on to work in a variety of fields, including communications and publishing. In fact, English majors work in virtually every profession there is. Many English majors enter the following careers:

Advertising Manager
Editor
Freelance Writer
Interpreter & Translator
Lawyer
Librarian
News Reporter
Paralegal
Public Relations Manager
Public Relations Specialist
Teacher
Technical Writer
Writer & Author

Associate in Arts Degree Requirements

Code	Title	Units
ENGL-C1000	Academic Reading and Writing	4
ENGL-C1001	Critical Thinking and Writing	3
ENGL-C1002	Introduction to Literature	3
ENGL-126	Introduction to Creative Writing	3
ENGL-200	Cooperative Work Experience in English	1-4
Select two of the following:		6
ENGL-221	British Literature I	
ENGL-222	British Literature II	
ENGL-231	American Literature I	
ENGL-232	American Literature II	
ENGL-271	World Literature II	
Select one of the following:		3
ENGL-130	Short Fiction Writing I	
ENGL-140	Poetry Writing I	
ENGL-201	Women, Gender, and Sexuality in Literature	
ENGL-202	Introduction to Film as Literature	
ENGL-217	Fantasy and Science Fiction	
ENGL-236	Chicana/o Literature	
ENGL-238	Black Literature	
Select one of the following:		3
ANTH-120	Cultural Anthropology	
COMM-110	Introduction to Mass Communication	
COMM-124	Intercultural Communication	
COMM-145	Argumentation	
HIST-100	Early World History	
HIST-101	Modern World History	
HUM-111	Culture, Art & Ideas of the United States	
HUM-115	Arts & Culture of San Diego	
HUM-155	World Mythology through the Humanities	
MUS-111	History of Jazz	
MUS-123	History of Hip Hop Culture	
PHIL-110	A General Introduction to Philosophy	
SOC-114/ ETHN-114	Introduction to Race & Ethnicity	
Total Units		**26-29**

Plus General Education Requirements (p. 57)

Recommended Electives: Students planning to transfer to four-year institutions to complete a bachelor's degree in English are **strongly** urged to take the following courses, depending on the requirements at those schools: Two sequential semesters of a single foreign language (10 units).

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in English. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Creative Writing Certificate of Achievement

The Creative Writing Certificate of Achievement at Cuyamaca College helps students develop their literary voices through the study and practice of creative writing across multiple genres. Students read and analyze works by established and contemporary authors, create and revise original pieces, and participate in workshops and public readings. The program also introduces students to pathways for publication—from self-publishing to professional submission—offering a flexible option for writers pursuing personal, academic, or career goals. A total of 16–19 units is required to earn the Certificate.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Create and refine original creative work in multiple genres, demonstrating control of language, form, and style.
2. Apply critical and editorial skills to evaluate, revise, and strengthen both their own writing and the work of peers through workshop and feedback processes.
3. Evaluate creative writing as an artistic, cultural, and professional practice, drawing connections between their own work and the broader literary community.
4. Develop a cohesive creative portfolio that reflects growth as a writer and readiness for publication, performance, or further academic study in creative writing or literature.

Certificate Requirements

Code	Title	Units
ENGL-C1000	Academic Reading and Writing	4
ENGL-C1002	Introduction to Literature	3
ENGL-126	Introduction to Creative Writing	3
ENGL-130	Short Fiction Writing I	3
ENGL-140	Poetry Writing I	3
Select one of the following:		1-4
ENGL-131	Short Fiction Writing II	
ENGL-132	Short Fiction Writing III	
ENGL-133	Short Fiction Writing IV	
ENGL-141	Poetry Writing II	
ENGL-142	Poetry Writing III	
ENGL-143	Poetry Writing IV	
ENGL-201	Women, Gender, and Sexuality in Literature	
ENGL-202	Introduction to Film as Literature	
ENGL-217	Fantasy and Science Fiction	
ENGL-236	Chicana/o Literature	
or ETHN-236	Chicana/o Literature	
ENGL-238	Black Literature	
or ETHN-238	Black Literature	
ENGL-200	Cooperative Work Experience in English	
Total Units		**17-20**

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

General Studies: Communication and Language Arts



The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

Requirements

To meet the General Studies degree requirements, a student must complete the following:

I. **AS or AA General Education Requirements** (see Degree Requirements and Transfer Information section)
and

II. **Choose a minimum of 18 units**
Students must complete a minimum of three units in Communication and three units in Language Arts. The remaining twelve units may be taken from either category.

The Associate in Arts in General Studies with an Emphasis in Communication and Language Arts will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses emphasize the study of how language works to express human ideas and feelings. Students will explore and analyze written and verbal communication methods, as well as develop and advance their oral and written communication skills. .

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Organize thoughts and ideas in both oral and written format.
2. Communicate effectively with diverse audiences in a variety of media and/or contexts.
3. Navigate norms related to communicating in diverse environments, including professional, intercultural, and/or specialized settings.

Communication

Code	Title	Units
BUS-128	Business Communication	3
COMM-C1000	Introduction to Public Speaking	3
COMM-C1004	Interpersonal Communication	3
COMM-110	Introduction to Mass Communication	3
COMM-123	Advanced Public Speaking	3
COMM-124	Intercultural Communication	3
COMM-137	Critical Thinking in Group Communication	3
COMM-145	Argumentation	3

Language Arts

Code	Title	Units
ARAM-120	Aramaic I	5
ARAM-121	Aramaic II	5
ARAM-220	Aramaic III	5
ARBC-120	Arabic I	5
ARBC-121	Arabic II	5
ARBC-122	Arabic for the Arabic Speaker I	5
ARBC-123	Arabic for the Arabic Speaker II	5
ARBC-220	Arabic III	5
ARBC-221	Arabic IV	5
ARBC-250	Conversational Arabic I	3
ARBC-251	Conversational Arabic II	3
ARBC-254	Conversational Iraqi Dialect	3
ARBC-256	Conversational Levantine Dialect	3
ASL-120	American Sign Language I	4
ASL-121	American Sign Language II	4
ASL-220	American Sign Language III	4
ASL-221	American Sign Language IV	4
BUS-128	Business Communication	3
ENGL-C1001	Critical Thinking and Writing	3
ENGL-C1002	Introduction to Literature	3
ENGL-126	Introduction to Creative Writing	3
ENGL-130	Short Fiction Writing I	3
ENGL-131	Short Fiction Writing II	3
ENGL-132	Short Fiction Writing III	3
ENGL-133	Short Fiction Writing IV	3
ENGL-140	Poetry Writing I	3
ENGL-141	Poetry Writing II	3
ENGL-142	Poetry Writing III	3
ENGL-143	Poetry Writing IV	3
ENGL-201	Women, Gender, and Sexuality in Literature	3
ENGL-202	Introduction to Film as Literature	3
ENGL-217	Fantasy and Science Fiction	3
ENGL-221	British Literature I	3
ENGL-222	British Literature II	3
ENGL-231	American Literature I	3
ENGL-232	American Literature II	3
ENGL-236	Chicana/o Literature	3
ENGL-238	Black Literature	3
ENGL-271	World Literature II	3
ETHN-236	Chicana/o Literature	3
ETHN-238	Black Literature	3
KUMY-120	Kumeyaay Language I	4
KUMY-121	Kumeyaay Language II	4
KUMY-220	Kumeyaay Language III	4
SPAN-120	Spanish I	5
SPAN-121	Spanish II	5
SPAN-220	Spanish III	5
SPAN-221	Spanish IV	5
SPAN-250	Conversational Spanish I	3
SPAN-251	Conversational Spanish II	3

Spanish



- Spanish for Transfer (AA-T) (p. 179)
- Spanish Associate in Arts and Certificate of Achievement (p. 180)



Spanish for Transfer (AA-T)



The Associate in Arts in Spanish for Transfer degree is designed to provide students with communicative skills in Spanish, as well as a greater understanding of Spanish culture and civilization. This degree prepares students to transfer to a California State University.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate clearly and effectively in a variety of media and/or contexts (speech, writing, and/or sign language).
2. Apply discipline-specific theories about language and communication to students' own practice or work.
3. Navigate norms related to communicating in diverse environments, including professional, intercultural, and/or specialized settings.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
SPAN-120	Spanish I	5
SPAN-121	Spanish II	5
SPAN-220	Spanish III	5
SPAN-221	Spanish IV	5

List A		
Select one of the following:		3
HIST-118	U.S. History: Chicano/Chicana Perspectives I	
HIST-119	U.S. History: Chicano/Chicana Perspectives II	
ETHN-236/ ENGL-236	Chicana/o Literature	
SPAN-250	Conversational Spanish I [1]	
SPAN-251	Conversational Spanish II [1]	
Units for the Major		**23**
Double-Counted Units		3-6
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		6-9
Total Units		**60**

[1] Substitution Courses:
SPAN-250 Conversational Spanish I may be substituted for SPAN-120 Spanish I for students placing at the level of SPAN-121 Spanish II.
SPAN-251 Conversational Spanish II may be substituted for SPAN-121 Spanish II for students placing into SPAN-220 Spanish III.

Please note: SDSU accepts this degree for students transferring into Spanish B.A.

Spanish Associate in Arts and Certificate of Achievement



This degree program is designed to provide students with communicative skills in understanding, speaking, reading, and writing Spanish. It also gives students a greater understanding of Spanish culture and civilization, and prepares them for greater international and domestic career opportunities. For the suggested sequence of courses to be taken and/or assistance in transferring to a four-year institution, contact the Counseling Center or the Department of World Languages.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate clearly and effectively in a variety of media and/or contexts (speech, writing, and/or sign language).
2. Apply discipline-specific theories about language and communication to students' own practice or work.
3. Navigate norms related to communicating in diverse environments, including professional, intercultural, and/or specialized settings.

Career Opportunities

Bilingual Aide
Border Patrol Officer
Buyer
Court Interpreter
Counseling
Customs Agent/Inspector
Foreign Exchange Clerk
Foreign Student Advisor[1]
Interpreter
Journalist[1]
Museum Curator[1]
Physician[1]
Scientific Linguist[1]
Tour Guide
Tutor

[1] Bachelor Degree or higher required.

Associate in Arts Degree Requirements

Code	Title	Units
SPAN-120	Spanish I	5
SPAN-121	Spanish II	5
SPAN-220	Spanish III	5
SPAN-221	Spanish IV	5
SPAN-250	Conversational Spanish I	3
SPAN-251	Conversational Spanish II	3
Select one of the following:		3
HIST-118	U.S. History: Chicano/Chicana Perspectives I	
HIST-119	U.S. History: Chicano/Chicana Perspectives II	
SPAN-141	Spanish and Latin American Cultures	
SPAN-145	Hispanic Civilizations	
Total Units		**29**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Spanish. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

University Studies: Communication and Language Arts



The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

Requirements

1. Complete 60 transferable units
    1. CSU or UC transferable units

2. California General Education Transfer Curriculum (Cal-GETC)
    1. Complete 34 units of transfer general education as required for Cal-GETC (see Degree Requirements section of catalog)
3. Choose a minimum of 18 units
    1. Students must complete a minimum of three units in Communication, and three units Language Arts. The remaining twelve units may be taken from either category.

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Arts in University Studies with an Emphasis in Communication and Language Arts focus on the study of how language works to express human ideas and feelings. Students will explore and analyze written and verbal communication methods, as well as develop and advance their oral and written communication skills. Students completing this area may be interested in the following baccalaureate majors: communication, English, foreign language, literature, journalism, and linguistics. .

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Organize thoughts and ideas in both oral and written format.
2. Communicate effectively with diverse audiences in a variety of media and/or contexts.
3. Navigate norms related to communicating in diverse environments, including professional, intercultural, and/or specialized settings.

Communication

Code	Title	Units
BUS-128	Business Communication	3
COMM-C1000	Introduction to Public Speaking	3
COMM-C1004	Interpersonal Communication	3
COMM-110	Introduction to Mass Communication	3
COMM-123	Advanced Public Speaking	3
COMM-124	Intercultural Communication	3
COMM-137	Critical Thinking in Group Communication	3
COMM-145	Argumentation	3

Language Arts

Code	Title	Units
ARAM-120	Aramaic I	5
ARAM-121	Aramaic II	5
ARAM-220	Aramaic III	5
ARBC-120	Arabic I	5
ARBC-121	Arabic II	5
ARBC-122	Arabic for the Arabic Speaker I	5
ARBC-123	Arabic for the Arabic Speaker II	5
ARBC-220	Arabic III	5
ARBC-221	Arabic IV	5
ARBC-254	Conversational Iraqi Dialect	3
ARBC-256	Conversational Levantine Dialect	3
ASL-120	American Sign Language I	4
ASL-121	American Sign Language II	4
ASL-220	American Sign Language III	4
ASL-221	American Sign Language IV	4
BUS-128	Business Communication	3
ENGL-C1001	Critical Thinking and Writing	3
ENGL-C1002	Introduction to Literature	3
ENGL-126	Introduction to Creative Writing	3
ENGL-130	Short Fiction Writing I	3
ENGL-131	Short Fiction Writing II	3
ENGL-132	Short Fiction Writing III	3
ENGL-133	Short Fiction Writing IV	3
ENGL-140	Poetry Writing I	3
ENGL-141	Poetry Writing II	3
ENGL-142	Poetry Writing III	3
ENGL-143	Poetry Writing IV	3
ENGL-201	Women, Gender, and Sexuality in Literature	3
ENGL-202	Introduction to Film as Literature	3
ENGL-221	British Literature I	3
ENGL-222	British Literature II	3
ENGL-231	American Literature I	3
ENGL-232	American Literature II	3
ENGL-236	Chicana/o Literature	3
ENGL-238	Black Literature	3
ENGL-271	World Literature II	3
ETHN-236	Chicana/o Literature	3
ETHN-238	Black Literature	3
KUMY-120	Kumeyaay Language I	4
KUMY-121	Kumeyaay Language II	4
KUMY-220	Kumeyaay Language III	4
SPAN-120	Spanish I	5
SPAN-121	Spanish II	5
SPAN-220	Spanish III	5
SPAN-221	Spanish IV	5
SPAN-250	Conversational Spanish I	3
SPAN-251	Conversational Spanish II	3

STEM



- Biological Sciences (p. 182)
- Chemistry Associate in Science (p. 184)
- Engineering (p. 184)
- General Studies: Science and Mathematics (p. 187)
- Mathematics (p. 188)
- Physics (p. 190)
- University Studies: Science and Mathematics (p. 192)

Biological Sciences



- Biology for Transfer (AS-T) (p. 182)
- Biological Sciences Associate in Science (p. 182)
- Marine Biology Associate in Science (p. 183)



Associate Degree for Transfer℠

Biology for Transfer (AS-T)



The Associate in Science in Biology for Transfer presents the diverse, dynamic study of life through a required core of biology and supporting courses. This degree is specifically designed to prepare students for transfer to a California State University, where a baccalaureate degree may be earned in Biological Sciences or a closely related field.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Apply the methods and tools of scientific inquiry to explain how structure contributes to biological function from molecular to organismal levels.
2. Analyze evolutionary mechanisms to explain adaptations and biodiversity and the interplay of organisms with their environment.
3. Design, collect, organize, analyze, and interpret quantitative and qualitative data; and incorporate findings into the broader context of biological knowledge and communicate results effectively.

Associate in Science for Transfer Degree Requirements

Code	Title	Units
Required Core		
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology	4
BIO-240	Principles of Ecology, Evolution and Organismal Biology	5
List A		
CHEM-141	General Chemistry I	5
CHEM-142	General Chemistry II	5
MATH-C2210	Calculus I: Early Transcendentals	5
PHYC-130 & PHYC-131	Fundamentals of Physics and Fundamentals of Physics	8
List B		
STAT-C1000	Introduction to Statistics	4
Units for the Major		**36**
Double-Counted Units		10
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Electives		0
Total Units		**60**

Biological Sciences Associate in Science



This degree program is designed to provide a two-year transfer program with emphasis on the uniformity and diversity of life. The curriculum fulfills the lower division requirements for majors in biology, dentistry, medicine, nursing, pharmacy, environmental health, microbiology and ecology.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic structures and fundamental processes of life at the molecular, cellular, and organismal levels.
2. Identify the evolutionary processes that lead to adaptation and biological diversity.
3. Describe the relationship between life forms and their environment and ecosystems.
4. Collect, organize, analyze, interpret and present quantitative and qualitative data and incorporate them into the broader context of biological knowledge.

5. Effectively apply current technology and scientific methodologies for problem solving.
6. Find, select and evaluate various types of scientific information including primary research articles, mass media sources and World Wide Web information.
7. Communicate effectively in written and oral formats.

Career Opportunities

Aquatic Biologist[1]
Athletic Trainer[1]
Biologist[1]
Biochemical Engineer[1]
Biological Technician
Biomedical Equipment Technician
Biotechnologist
Botanist[1]
Clinical Lab Technologist
Cytologist[1]
Ecologist[1]
Environmental Engineer[1]
Environmental Technician
Environmental Microbiologist[1]
Genetic Engineering Technician
Greenhouse Assistant
Laboratory Technician
Physical Therapist[1]
Public Health Biologist[1]
Purification Technician
Research Assistant
Safety Specialist
Teacher[1]
Technical Writer
Waste Management Technician

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology	4
BIO-240	Principles of Ecology, Evolution and Organismal Biology	5
CHEM-141	General Chemistry I	5
CHEM-142	General Chemistry II	5
CHEM-231	Organic Chemistry I	5
MATH-C2210	Calculus I: Early Transcendentals	5
PHYC-130	Fundamentals of Physics	4
PHYC-131	Fundamentals of Physics	4
STAT-C1000	Introduction to Statistics	4
or PSY-215	Statistics for the Behavioral Sciences	
Total Units		**41**

Plus General Education Requirements (p. 57)

Marine Biology Associate in Science



The Marine Biology degree is designed to provide a two-year transfer program leading to a B.S. degree in Marine Biology with emphasis on the diversity of organisms and the biological and physical processes that affect these organisms, their populations and their coastal and oceanic ecosystems. This major requires a strong foundation in natural sciences that is provided in this two-year transfer degree that can lead to UC or CSU Marine Biology programs.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the basic structures and fundamental processes of life at the molecular, cellular, and organismal levels.
2. Identify the evolutionary processes that lead to adaptation and biological diversity.
3. Describe the relationship between life forms and their environment and ecosystems.
4. Collect, organize, analyze, interpret and present quantitative and qualitative data and incorporate them into the broader context of biological knowledge.
5. Effectively apply current technology and scientific methodologies for problem solving.
6. Find, select and evaluate various types of scientific information including primary research articles, mass media sources and Internet information.
7. Communicate effectively in written and oral formats.

Associate in Science Degree Requirements

Code	Title	Units
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology	4
BIO-240	Principles of Ecology, Evolution and Organismal Biology	5
CHEM-141	General Chemistry I	5
CHEM-142	General Chemistry II	5
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
Select one of the following options:		8-15
Option 1:		
PHYC-201	Mechanics and Waves	
PHYC-202	Electricity, Magnetism, and Heat	
PHYC-203	Light, Optics, and Modern Physics	
Option 2:		
PHYC-130	Fundamentals of Physics	
PHYC-131	Fundamentals of Physics	
Total Units		**40-47**

Plus General Education Requirements (p. 57)

Chemistry Associate in Science



The chemistry curriculum is designed to provide students who choose to work toward a bachelor's degree a well-balanced, lower division program with a strong emphasis on fundamentals and problem solving. This major fulfills the lower division requirements (except for analytical chemistry) for chemistry majors and is typical of the requirements at four-year colleges and universities.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Comprehend and describe the nature of matter, including its classification, composition and structure, and physical and chemical transformations.
2. Apply problem-solving skills to predict and interpret quantities related to physical and chemical processes.
3. Draw scientific conclusions about simple and complex systems by collecting, assessing, and analyzing information.

Career Opportunities

Chemists work in a variety of fields, primarily those of the chemical, biotechnological, environmental, biomedical, pharmaceutical, electronics, forensic, agricultural and food industries. They usually work in analysis, research, development or production of materials. Management, marketing and teaching opportunities are also available.

Agricultural Chemist[1]
Air Quality Control1
Analytical Chemist[1]
Biochemist[1]
Chemistry Teacher[1]
Dietician[1]
Environmental Technologist[1]
Fishery Specialist
Food And Drug Inspector[1]
Forensic Specialist[1]
Laboratory Technician
Materials Scientist[1]
Medical Technologist
Microbiologist[1]
Organic Chemist[1]
Physician[1]
Polymer Chemist[1]
Sales Representative
Sanitarian Technician

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
CHEM-141	General Chemistry I	5
CHEM-142	General Chemistry II	5
CHEM-231	Organic Chemistry I	5
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
PHYC-203	Light, Optics, and Modern Physics	5
Total Units		**43**

Plus General Education Requirements (p. 57)

Note:

1. Students pursuing an emphasis in biochemistry should also take the following courses: BIO-230 Principles of Cellular, Molecular and Evolutionary Biology, BIO-240 Principles of Ecology, Evolution and Organismal Biology.
2. Students who intend to enroll at UCSD should take MATH-285 Differential Equations and check with the Counseling Center regarding program options.

Engineering



- Civil Engineering Associate in Science (p. 184)
- Electrical and Computer Engineering Associate in Science (p. 185)
- Mechanical and Aerospace Engineering Associate in Science (p. 186)

Civil Engineering Associate in Science



This degree program is designed to cover the first two years of a four-year program leading to the bachelor's degree in engineering at most four-year colleges and universities. While the bachelor's degree is usually the minimum needed to practice as an engineer, the associate degree will permit an individual to find work in most engineering firms as an engineering aide.

Career Opportunities

Aerospace Engineer[1]
Agricultural Engineer[1]
Architectural Engineer[1]

Biomedical Engineer[1]
CAD/CAM Engineer[1]
Chemical Engineer[1]
Civil Engineer[1]
Civil Engineering Technician
Computer Engineer[1]
Electrical Engineer[1]
Electrical Engineering Technician
Environmental Engineer[1]
Geological Engineer[1]
Industrial Engineer[1]
Industrial Engineering Technician
Manufacturing Engineer[1]
Marine Engineer[1]
Materials Engineer[1]
Mechanical Engineer[1]
Mechanical Engineering Technician
Mining Engineer[1]
Nuclear Engineer[1]
Petroleum Engineer[1]
Structural Engineer[1]
Systems Engineer[1]
Robotics Engineer[1]

[1] Bachelor's degree or higher required.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Draw conclusions about simple and complex systems by collecting, assessing, and analyzing information.
2. Communicate technical ideas in group and professional settings in both written and oral form.

Associate in Science Degree Requirements

Code	Title	Units
CHEM-141	General Chemistry I	5
ENGR-100	Introduction to Engineering and Design	4
ENGR-119	Introduction to Computer Aided Drafting and Design	3
or CADD-119	Introduction to Computer Aided Drafting and Design	
ENGR-218/SURV-218	Plane Surveying	4
ENGR-225	Mechanics for Civil Engineers	3
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
MATH-285	Differential Equations	3
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
STAT-C1000	Introduction to Statistics	4
Total Units		**49**

Plus General Education Requirements (p. 57)

Electrical and Computer Engineering Associate in Science



This degree program is designed to cover the first two years of a four-year program leading to the bachelor's degree in engineering at most four-year colleges and universities. While the bachelor's degree is usually the minimum needed to practice as an engineer, the associate degree will permit an individual to find work in most engineering firms as an engineering aide.

Career Opportunities

Aerospace Engineer[1]
Agricultural Engineer[1]
Architectural Engineer[1]
Biomedical Engineer[1]
CAD/CAM Engineer[1]
Chemical Engineer[1]
Civil Engineer[1]
Civil Engineering Technician
Computer Engineer[1]
Electrical Engineer[1]
Electrical Engineering Technician
Environmental Engineer[1]
Geological Engineer[1]
Industrial Engineer[1]
Industrial Engineering Technician
Manufacturing Engineer[1]
Marine Engineer[1]
Materials Engineer[1]
Mechanical Engineer[1]
Mechanical Engineering Technician
Mining Engineer[1]
Nuclear Engineer[1]
Petroleum Engineer[1]
Structural Engineer[1]
Systems Engineer[1]
Robotics Engineer[1]

[1] Bachelor's degree or higher required.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Visualize 3D objects and sketch them accurately in 2D.
2. Solve engineering problems through computer modeling, employing a computer language such as C or Java.
3. Design and write computer programs that employ linked list memory management, stacks, tree data structures, and searching and sorting algorithms.
4. Determine the DC and steady-state AC voltages and currents everywhere in an electric circuit composed of passive components.
5. Model linear systems of arbitrary size and complexity using linear algebra.

6. Model transient and steady-state electrical systems using systems of 2nd order differential equations.
7. Apply Green's theorem, Stokes' theorem, and Maxwell's equations to solve simple problems in electrostatics and electromagnetism.
8. Analyze and design combinational and sequential digital logic systems of arbitrary complexity, including (for example) Moore and Mealy sequential machines.

Associate in Science Degree Requirements

Code	Title	Units
CHEM-141	General Chemistry I	5
CS-181	Introduction to C++ Programming	4
or CS-182	Introduction to Java Programming	
CS-281	Intermediate C++ Programming and Fundamental Data Structures	4
or CS-282	Intermediate Java Programming and Fundamental Data Structures	
ENGR-100	Introduction to Engineering and Design	4
ENGR-210	Electric Circuits	4
ENGR-270	Digital Design	4
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-245	Discrete Mathematics	3-4
or MATH-281	Multivariable Calculus	
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-284	Linear Algebra	3
MATH-285	Differential Equations	3
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
Total Units		**53-54**

Plus General Education Requirements (p. 57)

Mechanical and Aerospace Engineering Associate in Science



This degree program is designed to cover the first two years of a four-year program leading to the bachelor's degree in engineering at most four-year colleges and universities. While the bachelor's degree is usually the minimum needed to practice as an engineer, the associate degree will permit an individual to find work in most engineering firms as an engineering aide.

Career Opportunities

Aerospace Engineer[1]
Agricultural Engineer[1]
Architectural Engineer[1]
Biomedical Engineer[1]
CAD/CAM Engineer[1]
Chemical Engineer[1]
Civil Engineer[1]
Civil Engineering Technician
Computer Engineer[1]
Electrical Engineer[1]
Electrical Engineering Technician
Environmental Engineer[1]
Geological Engineer[1]
Industrial Engineer[1]
Industrial Engineering Technician
Manufacturing Engineer[1]
Marine Engineer[1]
Materials Engineer[1]
Mechanical Engineer[1]
Mechanical Engineering Technician
Mining Engineer[1]
Nuclear Engineer[1]
Petroleum Engineer[1]
Structural Engineer[1]
Systems Engineer[1]
Robotics Engineer[1]

[1] Bachelor's degree or higher required.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Visualize 3D objects and draw them in 2D, both by sketching and through the use of computer-aided drafting software; produce a complete set of drawings sufficient to manufacture a part, including dimensions and tolerances.
2. Solve engineering problems through computer modeling, employing an engineering computer language such as Matlab.
3. Design a rigid structure such as a bridge, determining forces in each part of the structure. Determine the weight and location of the structure's center of gravity.
4. Design a dynamic system such as a piston or linkage and compute forces, accelerations, and speeds of all components of the system.
5. Select an appropriate material for manufacturing a part or product and determine the appropriate material processing techniques to produce the part. Justify the choice of material on the basis of macroscopic mechanical properties as well as microstructure.
6. Determine the DC and steady-state AC voltages and currents everywhere in an electric circuit composed of passive components.
7. Model vibrating systems using systems of 2nd order differential equations.

Associate in Science Degree Requirements

Code	Title	Units
CHEM-141	General Chemistry I	5
ENGR-100	Introduction to Engineering and Design	4
ENGR-120	Engineering Computer Applications	3
ENGR-200	Engineering Mechanics-Statics	3
ENGR-210	Electric Circuits	3-4
or ENGR-230	Basics of Mechatronics	
ENGR-220	Engineering Mechanics-Dynamics	3
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4

MATH-285	Differential Equations	3
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
Total Units		**47-48**

Plus General Education Requirements (p. 57)

General Studies: Science and Mathematics



The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

Requirements

To meet the General Studies degree requirements, a student must complete the following:

I. **AS or AA General Education Requirements** (see Degree Requirements and Transfer Information section)
and

II. **Choose a minimum of 18 units**
Students must complete a minimum of three units in Science and three units in Mathematics (limitation of one statistics course). The remaining twelve units may be taken from any category.

The Associate in Science in General Studies with an Emphasis in Science and Mathematics will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses emphasize the study of mathematical and quantitative reasoning skills and apply the facts and principles that form the foundations of living and non-living systems. Students will recognize and utilize the methodologies of science as investigative tools, as well as the limitations of science. Students will use mathematical skills to solve numerical problems encountered in daily life, and more advanced skills for applications in the physical and life sciences.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Solve problems using fundamentals of mathematics, engineering, natural and/or computer science.
2. Utilize mathematical skills to analyze data and/or solve problems.
3. Analyze basic concepts of physical and biological science to evaluate scientific information and solve scientific problems.
4. Draw scientific conclusions about simple and complex systems by collecting, assessing, and analyzing information.

Code	Title	Units
Science		
ANTH-C1001	Introduction to Biological Anthropology	3
ASTR-C1001	Introduction to Astronomy	3
ASTR-C1001L	Introduction to Astronomy Lab	1
BIOL-C1000	Introduction to Biology With Lab	4
BIO-112	Contemporary Issues in Environmental Resources	3
BIO-122	The Secret Life of Plants	4
BIO-133	Ethnoecology	3
BIO-134	Ethnobotany	3
BIO-135	Ethnobotany/Ethnoecology Lab	1
BIO-140	Human Anatomy	4
BIO-141	Human Physiology	3
BIO-141L	Laboratory in Human Physiology	1
BIO-152	Paramedical Microbiology	5
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology	4
BIO-240	Principles of Ecology, Evolution and Organismal Biology	5
BIO-251	Human Dissection	1
CHEM-102	Introduction to General, Organic and Biological Chemistry	5
CHEM-120	Preparation for General Chemistry	4
CHEM-141	General Chemistry I	5
CHEM-142	General Chemistry II	5
CHEM-231	Organic Chemistry I	5
CHEM-232	Organic Chemistry II	5
ET-110	Introduction to Electricity and Electronics	4
GEOG-120	Physical Geography: Earth Systems	3
GEOG-121	Physical Geography: Earth Systems Laboratory	1
GEOL-104	Earth Science	3
GEOL-110	Planet Earth	3
GEOL-111	Planet Earth Laboratory	1
KUMY-133	Ethnoecology	3
KUMY-134	Ethnobotany	3
KUMY-135	Ethnobotany/Ethnoecology Lab	1
OCEA-112	Introduction to Oceanography	3
OCEA-113	Oceanography Laboratory	1
PHYC-110	Introductory Physics	4
PHYC-130	Fundamentals of Physics	4
PHYC-131	Fundamentals of Physics	4
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
PHYC-203	Light, Optics, and Modern Physics	5
Mathematics		
MATH-170	Analytic Trigonometry	3
MATH-175	College Algebra	4
MATH-176	Precalculus: Functions and Graphs	6
MATH-178	Calculus for Business, Social and Behavioral Sciences	4
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-245	Discrete Mathematics	3
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
MATH-284	Linear Algebra	3

MATH-285	Differential Equations	3
PSY-215	Statistics for the Behavioral Sciences	4
STAT-C1000	Introduction to Statistics	4
CADD and Engineering		
CADD-115	Engineering Graphics	3
CADD-119	Introduction to Computer Aided Drafting and Design	3
CADD-125	Solid Modeling Design	3
CADD-129	Engineering Solid Modeling	3
CADD-131	Architectural Computer-Aided Drafting and Design	3
ENGR-100	Introduction to Engineering and Design	4
ENGR-119	Introduction to Computer Aided Drafting and Design	3
ENGR-120	Engineering Computer Applications	3
ENGR-125	Solid Modeling Design	3
ENGR-129	Engineering Solid Modeling	3
ENGR-200	Engineering Mechanics-Statics	3
ENGR-210	Electric Circuits	4
ENGR-218	Plane Surveying	4
ENGR-220	Engineering Mechanics-Dynamics	3
ENGR-270	Digital Design	4
Computer Science		
CS-119	Program Design and Development	3
CS-119L	Program Design and Development Lab	1
CS-165	Assembly Language and Machine Architecture	4
CS-181	Introduction to C++ Programming	4
CS-182	Introduction to Java Programming	4
CS-240	Discrete Structures	3
CS-281	Intermediate C++ Programming and Fundamental Data Structures	4
CS-282	Intermediate Java Programming and Fundamental Data Structures	4

Mathematics

- Mathematics for Transfer (AS-T) (p. 188)
- Mathematics 2.0 for Transfer (AS-T) (https://catalog.gcccd.edu/cuyamaca/associate-degree-programs-certificates/stem/mathematics/mathematics-2-transfer-as-t/)
- Mathematics Associate in Science and Certificate of Achievement (p. 189)

Associate Degree for Transfer℠

Mathematics for Transfer (AS-T)

This program is designed to prepare students for transfer to a California State University (CSU) with the intent of earning a B.S. degree in Mathematics. Since jobs requiring mathematical skills such as data analysis, problem solving, pattern recognition, statistics, and probability are in high demand, the mathematics major may benefit both educationally and economically from developing and pursuing an interest in mathematics. Mathematical skills and statistical methods are employed regularly by researchers testing hypotheses, by workers applying quality control in manufacturing, and by informed citizens who must evaluate information from the media in tabular, graphical, and report form in order to reach solutions. This major offers a foundation in these necessary skills. The emphasis is to prepare students for transfer to a four-year institution and/or for career preparation in a vocational or professional field.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Draw conclusions about simple and complex systems by collecting, assessing, and analyzing information.
2. Communicate technical ideas in group and professional settings in both written and oral form.

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
List A		
Select one of the following:		3
MATH-284	Linear Algebra	
MATH-285	Differential Equations	
List B		

Select one of the following:		3-5
CS-181	Introduction to C++ Programming	
MATH-245	Discrete Mathematics	
PHYC-201	Mechanics and Waves	
STAT-C1000	Introduction to Statistics	
Any course from List A not selected above		
Units for the Major		**19-21**
Double-Counted Units		3-7
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		8-14
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into Mathematics (Science Emphasis) B.S.

Associate Degree for Transfer℠

Mathematics 2.0 for Transfer (AS-T)

This program is designed to prepare students for transfer to a California State University (CSU) with the intent of earning a B.S. degree in Mathematics. Since jobs requiring mathematical skills such as data analysis, problem solving, pattern recognition, statistics, and probability are in high demand, the mathematics major may benefit both educationally and economically from developing and pursuing an interest in mathematics. Mathematical skills and statistical methods are employed regularly by researchers testing hypotheses, by workers applying quality control in manufacturing, and by informed citizens who must evaluate information from the media in tabular, graphical, and report form in order to reach solutions. This major offers a foundation in these necessary skills. The emphasis is to prepare students for transfer to a four-year institution and/or for career preparation in a vocational or professional field.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; see Degree Requirements and Transfer Information (https://catalog.gcccd.edu/cuyamaca/degree-requirements-transfer-information/) section for more information.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Draw conclusions about simple and complex systems by collecting, assessing, and analyzing information.
2. Communicate technical ideas in group and professional settings in both written and oral form.

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
MATH-284	Linear Algebra	3
MATH-285	Differential Equations	3
List A		
Select one of the following:		4-5
CS-181	Introduction to C++ Programming	
CS-182	Introduction to Java Programming	
PHYC-201	Mechanics and Waves	
Units for the Major		**23-24**
Double-Counted Units		3-7
Plus General Education Requirements (Cal-GETC) (https://catalog.gcccd.edu/grossmont/admission-information/general-education-transfer/)		
Total Transferable Elective Units		5-10
Total Units		**60**

Mathematics Associate in Science and Certificate of Achievement

Since jobs requiring mathematical skills such as data analysis, problem solving, pattern recognition, statistics, and probability are in high demand, the mathematics major may benefit both educationally and economically from developing and pursuing an interest in mathematics. Mathematical skills and statistical methods are employed regularly by researchers testing hypotheses, by workers applying quality control in manufacturing, and by informed citizens who must evaluate information from the media in tabular, graphical, and report form in order to reach solutions. This major offers a foundation in these necessary skills. The emphasis is to prepare students for transfer to a four-year institution and/or for career preparation in a vocational or professional field.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Draw conclusions about simple and complex systems by collecting, assessing, and analyzing information.
2. Communicate technical ideas in group and professional settings in both written and oral form.

Career Opportunities

Accountant[1]
Actuary[1]
Air Traffic Controller

Auditor[1]
Bank Officer[2]
Budget Analyst[1]
Computer Operator
Computer Programmer[1]
Cost Estimator[2]
Credit and Collection Manager[2]
Data Processing Manager
Economist[1]
Engineer[1]
Financial Planner[1]
Insurance Agent/Broker
Insurance Claim Examiner
Laboratory Examiner
Loan Officer
Market Research Analyst[1]
Mathematician[1]
Mathematics Teacher[1]
Securities Trader[1]
Semiconductor Technician
Statistician[1]
Surveyor
Systems Analyst[1]

[1] Bachelor Degree or higher required.
[2] Bachelor Degree normally recommended.

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
List A		
Select one of the following:		3
MATH-284	Linear Algebra	
MATH-285	Differential Equations	
List B		
Select one of the following:		3-5
CS-181	Introduction to C++ Programming	
ENGR-120	Engineering Computer Applications	
MATH-245	Discrete Mathematics	
PHYC-201	Mechanics and Waves	
STAT-C1000	Introduction to Statistics	
Any course from List A not selected		
Total Units		**19-21**

Plus General Education Requirements (p. 57)

Recommended Electives

Students planning to transfer to four-year institutions to complete a bachelor's degree in Pure Mathematics, Applied Mathematics, or Statistics should select an emphasis in an applied discipline such as accounting, chemistry, computer science, economics, engineering, or physics. In particular, transfer students are strongly urged to elect the following physics courses:

Code	Title	Units
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
PHYC-203	Light, Optics, and Modern Physics	5

Students preparing for a vocational or professional career are strongly encouraged to select an emphasis in a vocational/professional discipline such as business, computer and information science, CADD technology, electronics technology, or environmental health and safety management.

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Mathematics. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Physics

- Physics for Transfer (AS-T) (p. 190)
- Physics 2.0 for Transfer (AS-T) (https://gcccd-next.courseleaf.com/cuyamaca/associate-degree-programs-certificates/stem/physics/physics-2-transfer-as-t/)
- Physics Associate in Science (p. 191)

Associate Degree for Transfer℠

Physics for Transfer (AS-T)

Physics is the study of the relationship between matter and energy in the universe. The AS-T in Physics for Transfer degree is designed to prepare students to transfer to a California State University (CSU) with the intent of earning a baccalaureate degree in physics. The curriculum is designed to provide students working toward a bachelor's degree a well-balanced, lower division program by emphasizing fundamental concepts and problem solving. The degree requirements are typical of what baccalaureate institutions require.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.

5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Draw scientific conclusions about simple and complex systems by collecting, assessing, and analyzing information.
2. Communicate technical ideas in group and professional settings in both written and oral form.

Associate in Science Degree Requirements

Code	Title	Units
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
PHYC-203	Light, Optics, and Modern Physics	5
Units for the Major		**28**
Double-Counted Units		7
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		5
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into the B.S. Physics (General) or B.S. Physics (Modern Optics Emphasis).

Associate Degree for Transfer℠

Physics 2.0 for Transfer (AS-T)

Physics 2.0 for Transfer (AS-T) explores the laws that govern matter, motion, and energy. Students gain a solid foundation in calculus-based physics, mathematics, and programming, preparing them to transfer to a CSU or UC to pursue a bachelor's degree in physics, engineering, or related fields.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; see Degree Requirements and Transfer Information (https://catalog.gcccd.edu/cuyamaca/degree-requirements-transfer-information/) section for more information.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Draw scientific conclusions about simple and complex systems by collecting, assessing, and analyzing information.
2. Communicate technical ideas in group and professional settings in both written and oral form.

Career Opportunities

Graduates are prepared to pursue upper-division studies leading to careers in physics, astronomy, engineering, computer science, education, and research industries that rely on quantitative and analytical skills.

Associate in Science Degree Requirements

Code	Title	Units
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
MATH-284	Linear Algebra	3
MATH-285	Differential Equations	3
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
PHYC-203	Light, Optics, and Modern Physics	5
CS-181	Introduction to C++ Programming	4
or CS-182	Introduction to Java Programming	
Units for the Major		**38**
Double-Counted Units		7
Plus General Education Requirements (Cal-GETC) (https://catalog.gcccd.edu/grossmont/admission-information/general-education-transfer/)		34
Total Transferable Elective Units		0
Total Units		**65**

Please note: San Diego State University (SDSU) and most CSU campuses accept this degree for students transferring into the B.S. Physics (General) or B.S. Physics (Modern Optics Emphasis) programs.

This new Physics 2.0 ADT aligns with statewide updates requiring Differential Equations, Linear Algebra, and an Introductory Programming course, ensuring full articulation to CSU and UC physics majors.

Physics Associate in Science

Physics is the study of the relationship between matter and energy in the universe. The curriculum is designed to provide students working toward a bachelor's degree a well-balanced, lower division program by emphasizing fundamental concepts and problem solving. The degree requirements are typical of what four-year colleges and universities

require; see www.assist.org (http://www.assist.org) for requirements of specific transfer institution.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Draw scientific conclusions about simple and complex systems by collecting, assessing, and analyzing information.
2. Communicate technical ideas in group and professional settings in both written and oral form.

Career Opportunities

College or University Professor[1]
Data Scientist[1]
Engineer or Programmer[1]
Government Laboratory Scientist[1]
High School Physics Teacher[1]
Industry Consultant[1]
Medical Physicist[1]
Private Sector Research and Development Scientist[1]
Sales and Marketing Consultant[1]

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
CHEM-141	General Chemistry I	5
CHEM-142	General Chemistry II	5
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
PHYC-203	Light, Optics, and Modern Physics	5
Total Units		**38**

Plus General Education Requirements (p. 57)

University Studies: Science and Mathematics



The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

Requirements

I. Complete 60 transferable units
   1. CSU or UC transferable units
II. California General Education Transfer Curriculum (Cal-GETC)
   1. Complete 34 units of transfer general education as required for Cal-GETC (see Degree Requirements (p. 57) section of catalog)
III. Choose a minimum of 18 units
   1. Students must complete a minimum of three units in Science, and three units in Mathematics (limitation of one Statistics course). The remaining twelve units may be taken from either category.

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Science in University Studies with an Emphasis in Science and Mathematics focus on the study of mathematical and quantitative reasoning skills and the application of facts and principles that form the foundations of living and non-living systems. Students will recognize and utilize the methodologies of science as investigative tools, as well as the limitations of science. Students will use mathematical skills to solve numerical problems encountered in daily life, as well as more advanced skills for applications in the physical and life sciences. Students completing this area may be interested in the following baccalaureate majors: astronomy, biological sciences, chemistry, computer science, engineering, geography, geology, mathematics, oceanography, physical science, and physics.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Utilize high level mathematical skills to analyze data and/or solve problems.
2. Analyze concepts of physical and biological science to evaluate scientific information and solve scientific problems.
3. Draw scientific conclusions about simple and complex systems by collecting, assessing, and analyzing information.

Science

Code	Title	Units
ANTH-C1001	Introduction to Biological Anthropology	3
ASTR-C1001	Introduction to Astronomy	3
ASTR-C1001L	Introduction to Astronomy Lab	1
BIO-122	The Secret Life of Plants	4
BIO-133	Ethnoecology	3
BIO-134	Ethnobotany	3
BIO-135	Ethnobotany/Ethnoecology Lab	1
BIO-140	Human Anatomy	4
BIO-141	Human Physiology	3
BIO-141L	Laboratory in Human Physiology	1
BIO-152	Paramedical Microbiology	5

BIOL-C1000	Introduction to Biology With Lab	4
BIOL-C1001	Introduction to Biology	3
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology	4
BIO-240	Principles of Ecology, Evolution and Organismal Biology	5
BIO-251	Human Dissection	1
CHEM-102	Introduction to General, Organic and Biological Chemistry	5
CHEM-120	Preparation for General Chemistry	4
CHEM-141	General Chemistry I	5
CHEM-142	General Chemistry II	5
CHEM-231	Organic Chemistry I	5
CHEM-232	Organic Chemistry II	5
CS-119	Program Design and Development	3
CS-119L	Program Design and Development Lab	1
CS-181	Introduction to C++ Programming	4
CS-182	Introduction to Java Programming	4
CS-281	Intermediate C++ Programming and Fundamental Data Structures	4
CS-282	Intermediate Java Programming and Fundamental Data Structures	4
GEOG-120	Physical Geography: Earth Systems	3
GEOG-121	Physical Geography: Earth Systems Laboratory	1
GEOL-104	Earth Science	3
GEOL-110	Planet Earth	3
GEOL-111	Planet Earth Laboratory	1
KUMY-133	Ethnoecology	3
KUMY-134	Ethnobotany	3
KUMY-135	Ethnobotany/Ethnoecology Lab	1
OCEA-112	Introduction to Oceanography	3
OCEA-113	Oceanography Laboratory	1
PHYC-110	Introductory Physics	4
PHYC-130	Fundamentals of Physics	4
PHYC-131	Fundamentals of Physics	4
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
PHYC-203	Light, Optics, and Modern Physics	5

Mathematics

Code	Title	Units
MATH-170	Analytic Trigonometry	3
MATH-175	College Algebra	4
MATH-176	Precalculus: Functions and Graphs	6
MATH-178	Calculus for Business, Social and Behavioral Sciences	4
MATH-245	Discrete Mathematics	3
MATH-281	Multivariable Calculus	4
MATH-284	Linear Algebra	3
MATH-285	Differential Equations	3
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
PSY-215	Statistics for the Behavioral Sciences	4
STAT-C1000	Introduction to Statistics	4

Visual & Performing Arts



- Art (p. 194)
- Graphic Design (p. 199)
- Music (p. 200)

Art



- Art History for Transfer (AA-T) (p. 194)
- Studio Arts for Transfer (AA-T) (p. 195)
- Art–Animation Associate in Arts (p. 195)
- Art–Drawing, Painting, and Printmaking Associate in Arts (p. 196)
- Art–Illustration, Design, and Digital Arts Associate in Arts (p. 197)
- Art–Visual Communication Design Associate in Arts (p. 198)



Associate Degree for Transfer℠

Art History for Transfer (AA-T)



The Associate in Arts in Art History for Transfer degree prepares students to transfer to CSU campuses that offer bachelor's degrees in Art History. Students earning the Art History AA-T will be granted priority for admission as an Art History major to a local CSU, as determined by the CSU campus to which the student applies. A bachelor's degree in Art History prepares students for employment in curatorial work for the gallery and museum system. In addition, a bachelor's degree in Art History provides a solid foundation for advanced training in the more technical areas of art restoration and conservation, as well as branches of learning that are key to the study of art at the post-graduate level, including art theory, methodology, and criticism.

The Associate in Arts in Art History Transfer Degree educates students on the history of art and its function as a global language. Courses are designed to foster an understanding of visual communication by studying context, culture, social, political, economic, and religious conditions in different eras.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and evaluate works of art, architecture, and design from various histories, periods, and global cultures to critically examine these artworks within their racial, gender, sociopolitical, ethnographical, and cultural milieu.
2. Analyze, interpret, and evaluate artworks to derive contextual significance according to the elements of art, the principles of design, and their aesthetic qualities.
3. Contextualize the role of the arts in understanding the past by analyzing and evaluating the significance and application of art historical periods, cultures, styles, genres, themes, artists, and relevant vocabulary in art and design.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
or ARTH-C1200	Survey of Art from the Renaissance to Contemporary	
ART-124	Drawing I	3
ART-151	Chicanx Art	3
List A		
Select one of the following:		3
ART-142	Art of Africa, Oceania and the Americas	
ART-146	Asian Art	
List B		
Select one of the following:		3
ART-120	Two-Dimensional Design	
ART-121	Painting I	
ART-129	Three-Dimensional Design	
ART-135	Watercolor I	
ART-230	Figure Drawing I	
GD-110	Graphic Design Principles	
List C		
Select one of the following:		3
Any List B course not already used		
ART-143	Modern Art	
ART-145	Contemporary Art	
HUM-110	Principles of the Humanities	
HUM-115	Arts & Culture of San Diego	
HUM-116	Kumeyaay Arts and Culture I	
Units for the Major		**18**
Double-Counted Units		3-6

Plus General Education Requirements (Cal-GETC) (p. 57)	34
Total Transferable Elective Units	11-14
Total Units	**60**

Associate Degree for Transfer℠

Studio Arts for Transfer (AA-T)

The AA-T in Studio Arts is designed to prepare students to transfer to a California State University (CSU) with the intent of earning a B.A. degree in an area such as Fine Arts or Studio Arts. Students who earn this degree will have the techniques necessary to create a variety of two- and three-dimensional art projects while demonstrating an increased aesthetic awareness. They will have the ability to use visual media to generate ideas, solve visual problems, enhance perception, think and respond critically to visual information in their lives, identify and describe the historical and cultural contexts of artwork, and assess the role of the visual arts in culture as a vehicle of human expression.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Use the vocabulary of the visual arts to express their observations as they perceive and respond to works of art, objects in nature, events, and the environment.
2. Apply artistic processes and skills using a variety of media to communicate meaning and intent in original works of art.
3. Analyze the role and development of the visual arts in past and present cultures throughout the world, noting human diversity as it relates to the visual arts and the artists.
4. Analyze and derive meaning from works of art, including their own, according to the elements of art, the principles of design, and aesthetic qualities.
5. Apply what they have learned in the visual arts across subject areas by developing competencies and creative skills in problem solving, communication, management of time, and identifying resources that contribute to lifelong learning, career skills, and careers in and related to the visual arts.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
ART-120	Two-Dimensional Design	3
ART-124	Drawing I	3
ART-129	Three-Dimensional Design	3
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	3
List A		
Select one of the following:		3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
ART-142	Art of Africa, Oceania and the Americas	
ART-143	Modern Art	
ART-145	Contemporary Art	
ART-146	Asian Art	
List B		
Select three of the following:		9
ART-119	Color Theory	
ART-121	Painting I	
ART-125	Drawing II	
or ART-230	Figure Drawing I	
ART-135	Watercolor I	
ART-210	Introduction to Printmaking	
Units for the Major		**27**
Double-Counted Units		3
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		5
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into Art (Studio Arts emphasis).

Art–Animation Associate in Arts

This degree program is designed to provide a fundamental background in two-dimensional studio arts and design, emphasizing both technique and aesthetic awareness. The curriculum consists of courses in studio and digital techniques and art history. Students will develop their ability to control line, value, shape, color, perspective and composition in various mediums. The major provides preparation for transfer to a four-year college in fine art, design, or a vocational area related to art. In addition to the core requirements, students can further pursue a studio practice specific to Animation. Students planning to transfer to a four-year institution should consult with a counselor as well as with the department faculty.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Use the vocabulary of the visual arts to express their observations as they perceive and respond to works of art, objects in nature, events and the environment.
2. Apply artistic processes and skills, using a variety of media to communicate meaning and intent in original works of art.
3. Analyze the role and development of the visual arts in the past and present cultures throughout the world, noting human diversity as it relates to the visual arts and the artists.
4. Analyze, access and derive meaning from works of art, including their own, according to the elements of art, the principles of design and aesthetic qualities.
5. Apply what they learned in the visual arts across subject areas, develop competencies and creative skills in problem solving, communication, and management of time and resources that contribute to lifelong learning and career skills, and identify careers in and related to the visual arts.

Career Opportunities

Advertising Specialist[1]
Animator[1]
Antique Dealer
Art Conservator
Cartoonist
Curator
Designer[2]

- Fashion
- Floral
- Graphic
- Jewelry
- Interior
- Set

Display Manager
Gallery Owner
Illustrator
Independent Artist
Museum Technician
Museum Curator[1]
Museum Director[1]
Painter
Police Artist
Set Designer
Teacher/Professor[1]

[1]Bachelor Degree or higher required.
[2] Bachelor Degree normally required.

Associate in Arts Degree Requirements

Code	Title	Units
Core		
ART-120	Two-Dimensional Design	3
ART-124	Drawing I	3
ART-129	Three-Dimensional Design	3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	3
Animation Area of Emphasis		
ART-121	Painting I	3
ART-177	Digital Drawing and Painting	3
ART-184	Introduction to Animation	3
ART-230	Figure Drawing I	3
ART-243	Perspective Drawing	3
Recommended Electives		
ART-211	Intermediate Printmaking	
ART-221	Painting III	
ART-222	Painting IV	
ART-231	Figure Drawing II	
ART-240	Portraiture and Character Design	
ART-241	Illustration I	
GD-105	Fundamentals of Digital Media	
GD-225	Digital Illustration	
Total Units		**30**

Plus General Education Requirements (p. 57)

Art–Drawing, Painting, and Printmaking Associate in Arts



This degree program is designed to provide a fundamental background in two-dimensional studio arts and design, emphasizing both technique and aesthetic awareness. The curriculum consists of courses in studio and digital techniques and art history. Students will develop their ability to control line, value, shape, color, perspective and composition in various mediums. The major provides preparation for transfer to a four-year college in fine art, design, or a vocational area related to art. In addition to the core requirements, students can further pursue studio a practice specific to Drawing, Painting, and Printmaking. Students planning to transfer to a four-year institution should consult with a counselor as well as with the department faculty.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Use the vocabulary of the visual arts to express their observations as they perceive and respond to works of art, objects in nature, events and the environment.
2. Apply artistic processes and skills, using a variety of media to communicate meaning and intent in original works of art.
3. Analyze the role and development of the visual arts in the past and present cultures throughout the world, noting human diversity as it relates to the visual arts and the artists.
4. Analyze, access and derive meaning from works of art, including their own, according to the elements of art, the principles of design and aesthetic qualities.
5. Apply what they learned in the visual arts across subject areas, develop competencies and creative skills in problem solving, communication, and management of time and resources that

contribute to lifelong learning and career skills, and identify careers in and related to the visual arts.

Career Opportunities

Advertising Specialist[1]
Antique Dealer
Art Conservator
Art Therapist
Arts Administration
Cartoonist
Curator
Designer[2]

- Fashion
- Floral
- Jewelry
- Interior
- Set

Display Manager
Gallery Owner
Independent Artist
Museum Technician
Museum Curator[1]
Museum Director[1]
Painter
Police Artist
Set Designer
Teacher/Professor[1]

[1] Bachelor Degree or higher required

[2] Bachelor Degree normally required

Associate in Arts Degree Requirements

Code	Title	Units
Core		
ART-120	Two-Dimensional Design	3
ART-124	Drawing I	3
ART-129	Three-Dimensional Design	3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	3
Drawing, Painting, and Printmaking Area of Emphasis:		
ART-104	Artists and Designers Today	3
ART-121	Painting I	3
ART-210	Introduction to Printmaking	3
ART-230	Figure Drawing I	3
Select one of the following:		3
ART-119	Color Theory	
ART-125	Drawing II	
ART-211	Intermediate Printmaking	
ART-220	Painting II	
ART-240	Portraiture and Character Design	
ART-241	Illustration I	
ART-177	Digital Drawing and Painting	
ART-221	Painting III	
ART-222	Painting IV	
ART-231	Figure Drawing II	
Total Units		**30**

Recommended Electives

Plus General Education (p. 57) Requirements

Art–Illustration, Design, and Digital Arts Associate in Arts



This degree program is designed to provide a fundamental background in two-dimensional studio arts and design, emphasizing both technique and aesthetic awareness. The curriculum consists of courses in studio and digital techniques and art history. Students will develop their ability to control line, value, shape, color, perspective and composition in various mediums. The major provides preparation for transfer to a four-year college in fine art, design, or a vocational area related to art. In addition to the core requirements, students can further pursue a studio practice specific to Illustration, Design, and Digital Arts.

Students planning to transfer to a four-year institution should consult with a counselor as well as with the department faculty.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Use the vocabulary of the visual arts to express their observations as they perceive and respond to works of art, objects in nature, events and the environment.
2. Apply artistic processes and skills, using a variety of media to communicate meaning and intent in original works of art.
3. Analyze the role and development of the visual arts in the past and present cultures throughout the world, noting human diversity as it relates to the visual arts and the artists.
4. Analyze, access and derive meaning from works of art, including their own, according to the elements of art, the principles of design and aesthetic qualities.
5. Apply what they learned in the visual arts across subject areas, develop competencies and creative skills in problem solving, communication, and management of time and resources that contribute to lifelong learning and career skills, and identify careers in and related to the visual arts.

Career Opportunities

Advertising Specialist
Art Conservator
Cartoonist
Curator
Designer[2]

- Fashion
- Floral
- Graphic

- Jewelry
- Interior
- Set

Display Manager
Gallery Owner
Illustrator
Independent Artist
Museum Technician
Museum Curator[1]
Museum Director[1]
Painter
Police Artist
Set Designer
Teacher/Professor[1]

[1] Bachelor Degree or higher required
[2] Bachelor Degree normally required

Associate in Arts Degree Requirements

Code	Title	Units
Core		
ART-120	Two-Dimensional Design	3
ART-124	Drawing I	3
ART-129	Three-Dimensional Design	3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	3
Illustration, Design, and Digital Arts Area of Emphasis:		
ART-121	Painting I	3
ART-230	Figure Drawing I	3
ART-240	Portraiture and Character Design	3
ART-243	Perspective Drawing	3
Select 3 units from the following:		3
ART-177	Digital Drawing and Painting	
ART-184	Introduction to Animation	
ART-241	Illustration I	
Recommended Electives		
ART-211	Intermediate Printmaking	
ART-221	Painting III	
ART-222	Painting IV	
ART-231	Figure Drawing II	
GD-105	Fundamentals of Digital Media	
GD-225	Digital Illustration	
Total Units		**30**

Plus General Education Requirements (p. 57)

Art–Visual Communication Design Associate in Arts



This degree program provides students with strong foundational coursework emphasizing typography, design principles, and utilizes the manual and digital media needed to enter the field of graphic design. Students receive hands-on experience in the fundamentals of typography and design principles, using the most current industry software to create projects for the real world. Students will develop a professional portfolio for placement at a four-year university. Designed for students interested in pursuing a bachelor's degree in Graphic Design at a four-year university; please consult the catalog of the transfer institution for specific requirements.

Students interested in pursuing career education at the entry level, two-year associate degree or certificate in graphic design, should refer to the Graphic Design program.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Use the vocabulary of the visual arts to express their observations as they perceive and respond to works of art/design, objects in nature, events, and the environment.
2. Apply artistic processes and skills, using a variety of media to communicate meaning and intent in works of art/design.
3. Analyze the role and development of the visual arts in past and present cultures throughout the world, noting human diversity as it relates to the visual arts and artists.
4. Analyze, assess, and derive meaning from works of art, including their own, according to the elements of art, the principles of design, and aesthetic qualities.
5. Apply what they learn in the visual arts across subject areas; develop competencies and creative skills in problem solving, communication, and management of time and resources that contribute to lifelong learning and career skills; and identify careers in and related to the visual arts.

Career Opportunities

Advertising Director[1]
Advertising
Desktop Publishing
Display Designer
Graphic Designer
Multimedia
Package Designer
Web Media Designer

[1] Bachelor Degree or higher required

Associate in Arts Degree Requirements

Code	Title	Units
Core		
ART-120	Two-Dimensional Design	3

ART-124	Drawing I	3
ARTH-C1100	Survey of Art from Prehistory to the Medieval Era	3
ARTH-C1200	Survey of Art from the Renaissance to Contemporary	3
GD-105	Fundamentals of Digital Media	3
Select two of the following:		6
ART-129	Three-Dimensional Design	
GD-110	Graphic Design Principles	
GD-125	Typography	
Select three of the following:		9
ART-104	Artists and Designers Today	
ART-119	Color Theory	
ART-121	Painting I	
ART-125	Drawing II	
ART-177	Digital Drawing and Painting	
ART-230	Figure Drawing I	
Recommended Electives		
ART-151	Chicanx Art	
ART-242	Illustration II	
GD-126	Adobe Photoshop Digital Imaging	
GD-130	Professional Business Practices	
GD-210	Professional Digital Photography I	
GD-222	Web Animation	
GD-225	Digital Illustration	
GD-230	Graphic Design Work Experience	
Total Units		**30**

Plus General Education (p. 57) Requirements

Graphic Design

- Graphic Design Associate in Science and Certificate of Achievement (p. 199)
- Digital Photography Certificate of Specialization (p. 200)
- Web Graphics Certificate of Specialization (p. 200)

Graphic Design Associate in Science and Certificate of Achievement

Students in this degree program develop entry level skills in design aesthetics, typography, illustration, digital imaging, page layout, web design and professional business practices. The course work provides training with state of the art computer hardware and software used in the graphic design profession. Students develop a professional portfolio for job interviews. *Designed for a two-year degree or certificate only. Students interested in pursuing a bachelor's degree should refer to the Art–Graphic Design degree; please consult the catalog of the transfer institution for specific requirements.*

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Clarify design objectives and then apply design principles, communication skills, and production techniques to develop effective designs using industry standard software.

Career Opportunities

Animator
Art Director[1]
Creative Director[1]
Graphic Designer
Game Designer
Illustrator
Industrial Designer
Marketing Director[1]
Multimedia Designer
Package Designer
UX/UI Designer
Web Designer

[1] Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
ART-124	Drawing I	3
CIS-211	Web Development I	3
GD-105	Fundamentals of Digital Media	3
GD-110	Graphic Design Principles	3
GD-125	Typography	3
GD-126	Adobe Photoshop Digital Imaging	3
GD-129	Page Layout	3
GD-130	Professional Business Practices	3
GD-225	Digital Illustration	3
Select three of the following:		7-10
ART-230	Figure Drawing I	
GD-115	Introduction to Multimedia	
GD-120	User Experience Design	
GD-210	Professional Digital Photography I	
GD-211	Professional Digital Photography II	
GD-212	Professional Digital Photography III	
GD-217	Web Graphics	
GD-222	Web Animation	
GD-223	Advanced Web Animation	
GD-230	Graphic Design Work Experience	
Total Units		**34-37**

Plus General Education Requirements (p. 57)

Certificate of Achievement

Students who complete only the major requirements above qualify for a Certificate in Graphic Design. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Course Equivalencies

Cuyamaca Course	Similar Grossmont Course
GD-105	ART-171

Digital Photography Certificate of Specialization

These certificates offer specific training either for entry-level positions or to augment related programs such as Web Development or Graphic Design. They are designed to demonstrate a relatively narrow expertise or skill area that may be used to attain a graphic design "niche" job.

Students who complete the requirements below qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Clarify design objectives and then apply design principles and production techniques to develop effective photographic images using industry standard equipment and software.

Certificate Requirements

Code	Title	Units
GD-126	Adobe Photoshop Digital Imaging	3
GD-130	Professional Business Practices	3
GD-210	Professional Digital Photography I	3
GD-211	Professional Digital Photography II	3
GD-212	Professional Digital Photography III	3
Total Units		**15**

Web Graphics Certificate of Specialization

These certificates offer specific training either for entry-level positions or to augment related programs such as Web Development or Graphic Design. They are designed to demonstrate a relatively narrow expertise or skill area that may be used to attain a graphic design "niche" job.

Students who complete the requirements below qualify for a certificate in that area of emphasis. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Clarify design objectives and then apply design principles, communication skills, and production techniques to develop effective web designs using industry standard software.

Certificate Requirements

Code	Title	Units
CIS-211	Web Development I	3
GD-110	Graphic Design Principles	3
GD-210	Professional Digital Photography I	3
GD-217	Web Graphics	3
GD-222	Web Animation	3
Total Units		**15**

Music

- Music for Transfer (AA-T) (p. 200)
- Music Education Associate in Arts (p. 201)
- Music Education Certificate of Achievement (p. 202)
- Music Industry Studies Associate in Arts (p. 202)

Associate Degree for Transfer℠

Music for Transfer (AA-T)

The AA-T in Music for Transfer is designed to prepare students to transfer to a California State University (CSU) with the intent of earning a B.A. in music. Students who earn this degree will have the fundamental knowledge and skills necessary to succeed in a music degree at the baccalaureate level. The curriculum combines music theory, applied studies, and performance at the lower division level.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or higher or "Pass" in all courses required for the major.

5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; See Degree Requirements and Transfer Information (p. 57).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze a musical score to determine its key, harmonic structure, musical style, and form.
2. Identify musical elements in performances and relate them to their cultural and historical contexts.
3. Use either the voice or a musical instrument to perform an intermediate level work with reliable technique and appropriate stylistic interpretation.
4. Perform musical works in a large vocal or instrumental ensemble.
5. Demonstrate proficiency on either a musical instrument or with the voice.

Associate in Arts Degree Requirements

Code	Title	Units
Core Curriculum		
MUS-105	Music Theory and Practice I	4
MUS-106	Music Theory and Practice II	4
MUS-205	Music Theory and Practice III	4
MUS-190	Performance Studies	0.5
MUS-191	Performance Studies	0.5
MUS-290	Performance Studies	0.5
MUS-291	Performance Studies	0.5
Choose four units from the following large ensemble courses:		4
MUS-152	Concert Band	
MUS-153	Concert Band	
MUS-252	Concert Band	
MUS-253	Concert Band	
MUS-158	Chorus	
MUS-159	Chorus	
MUS-258	Chorus	
MUS-259	Chorus	
List A		
Select one of the following:		3-4
MUS-110	Great Music Listening	
MUS-206	Music Theory and Practice IV	
Units for the Major		**21-22**
Double-Counted Units		0-3
Plus General Education Requirements (Cal-GETC) (p. 57)		34
Total Transferable Elective Units		4-8
Total Units		**60**

Please note: SDSU accepts this degree for students transferring into Music B.A.

Music Education Associate in Arts

This degree program offers lower division preparation for students who want to pursue a bachelor's degree in music education and a California teaching credential in music. The primary emphasis is to prepare students for transfer to four-year music education programs.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate musical literacy and analytical skills by interpreting and analyzing musical works, including their harmonic, stylistic, and structural elements within cultural and historical contexts.
2. Apply musicianship and performance skills through vocal, instrumental, and ensemble participation that reflects technical proficiency, stylistic understanding, and collaborative artistry.
3. Integrate pedagogical and technological competencies to support effective music instruction, including the use of digital tools for notation, recording, and music education.
4. Articulate the professional roles and responsibilities of music educators and apply foundational teaching principles appropriate for secondary or community-based learning environments.

Career Opportunities

Arranger[1]
Choral Director[1]
Composer[1]
Conductor[1]
Copyist
Critic[1]
Instrumentalist
Music Instructor/Professor[1]
Music Librarian[1]
Music Therapist[1]
Music Typographer
Performer, Vocalist
Radio Programmer
Recording Company Representative
Teacher[1]

[1] Bachelor Degree or higher required.

Associate in Arts Degree Requirements

Code	Title	Units
MUS-105	Music Theory and Practice I	4
MUS-106	Music Theory and Practice II	4
MUS-110	Great Music Listening	3
MUS-116	Introduction to World Music	3
MUS-119	Cooperative Work Experience in Music Education	1
MUS-120	Introduction to Music Technology	3
MUS-126	Class Guitar I	2

MUS-132	Class Piano I	3
MUS-133	Class Piano II	3
MUS-170	Class Voice	2
MUS-190	Performance Studies	0.5
MUS-191	Performance Studies	0.5
MUS-232	Class Piano III	3
MUS-233	Class Piano IV	3
MUS-290	Performance Studies	0.5
MUS-291	Performance Studies	0.5
Select four (4) units of the following:		4
MUS-108	Rock, Pop and Soul Ensemble	
MUS-109	Rock, Pop and Soul Ensemble	
MUS-152	Concert Band	
MUS-153	Concert Band	
MUS-158	Chorus	
MUS-159	Chorus	
MUS-208	Rock, Pop and Soul Ensemble	
MUS-209	Rock, Pop and Soul Ensemble	
MUS-252	Concert Band	
MUS-253	Concert Band	
MUS-258	Chorus	
MUS-259	Chorus	
MUS-260	Conducting	
MUS-262	Woodwinds Methods	
MUS-263	Brass Methods	
MUS-272	String Methods	
MUS-273	Percussion Methods	
MUS-292A	Applied Music	0.5
MUS-293A	Applied Music	0.5
MUS-294A	Applied Music	0.5
MUS-295A	Applied Music	0.5
Total Units		40

Plus General Education Requirements (p. 57)

Music Education Certificate of Achievement

This certificate offers specific training for entry-level positions in Music Education or to augment related programs in Music Education. They are designed to demonstrate a relatively narrow expertise or skill area that may be used to attain a job in music education as a teaching aid or walk on coach.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Provide basic instrumental music instruction in an assisting capacity to a teacher of record in a public school setting.

Certificate of Achievement Requirements

Code	Title	Units
MUS-126	Class Guitar I	2
MUS-170	Class Voice	2
MUS-260	Conducting	1
MUS-262	Woodwinds Methods	1
MUS-263	Brass Methods	1
MUS-272	String Methods	1
MUS-273	Percussion Methods	1
Total Units		**9**

Certificate of Achievement

Students who complete the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Music Industry Studies Associate in Arts

This degree program provides lower division preparation for students wishing to transfer to a four-year program in Music Industry Studies. The curriculum combines training in music theory, literature and performance with studies in music technology and business. Transfer students should select the CSU GE Breadth or the IGETC transfer pattern (see Degree Requirements and Transfer Information section).

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze a musical score to determine its key, harmonic structure, musical style, and form.
2. Use the piano keyboard to demonstrate musical concepts and play beginning level compositions.
3. Use a digital audio workstation to record and edit digital audio files and notate musical ideas.
4. Identify musical elements in performances and relate them to their cultural and historical contexts.
5. Describe the structure, components, and various career paths of the music industry.
6. Demonstrate proficiency on either a musical instrument or with the voice.

Career Opportunities

Advertising Jingle Writer[1]
Arranger[1]
Artist and Repertoire Manager[1]
Artist Representative
Arts Administrator[1]
Attorney specializing in Performing Arts[1]
Composer[1]
Concert Producer[1]

Copyist
Instrumentalist
Musical Instrument Manufacturer Representative
Music Publisher[1]
Music Retail Manager
Professional Songwriter[1]
Publicist
Radio Programmer
Record Company representative[1]
Record Producer[1]
Recording Studio Engineer[1]
Teacher[1]
Video Game Composer
Vocalist

[1] Bachelor Degree or higher required.

Associate in Arts Degree Requirements

Code	Title	Units
MUS-104	Introduction to the Music Industry	3
MUS-105	Music Theory and Practice I	4
MUS-106	Music Theory and Practice II	4
MUS-120	Introduction to Music Technology	3
MUS-121	Music Industry Seminar	1
MUS-122	Music Industry Seminar	1
MUS-132	Class Piano I	3
MUS-133	Class Piano II	3
MUS-161	Cooperative Work Experience in Music Industry	1
MUS-221	Music Industry Seminar	1
MUS-222	Music Industry Seminar	1
Select two of the following:		6
MUS-110	Great Music Listening	
MUS-111	History of Jazz	
MUS-115	History of Rock Music	
MUS-116	Introduction to World Music	
MUS-123	History of Hip-Hop Culture	
MUS-184	Digital Audio Recording and Production	
Select one of the following:		3-4
BUS-120	Financial Accounting	
BUS-125	Business Law: Legal Environment of Business	
Select four of the following:		2-4
MUS-108	Rock, Pop and Soul Ensemble	
MUS-109	Rock, Pop and Soul Ensemble	
MUS-152	Concert Band	
MUS-153	Concert Band	
MUS-158	Chorus	
MUS-159	Chorus	
MUS-190	Performance Studies	
MUS-191	Performance Studies	
MUS-208	Rock, Pop and Soul Ensemble	
MUS-209	Rock, Pop and Soul Ensemble	
MUS-252	Concert Band	
MUS-253	Concert Band	
MUS-258	Chorus	
MUS-259	Chorus	
MUS-290	Performance Studies	
MUS-291	Performance Studies	
Total Units		**36-39**

Plus General Education Requirements (p. 57)

Pre Academic & Career Pathways



- California General Education Transfer Curriculum (Cal-GETC) Certificate of Achievement (p. 204)
- English as a Second Language (p. 204)

California General Education Transfer Curriculum (Cal-GETC) Certificate of Achievement



The Certificate of Achievement in California General Education Transfer Curriculum (Cal-GETC) may be awarded upon completion of the Cal-GETC requirements (see Degree Requirements and Transfer Information section). Students must complete a minimum of 34 units, which are distributed among six areas. Cal-GETC requirements are designed to be taken with a major area of concentration and elective courses in preparation for transfer to the California State University or the University of California.

Courses completed at California Community Colleges and participating institutions will be certified based on approval at the original campus. Courses taken at other colleges and universities; i.e. out-of-state, private, may be used in the certification under certain conditions. Although this certificate recognizes the completion of lower division general education requirements for Cal-GETC, it does not guarantee admission to a four-year institution. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Exhibit proficiency in written and oral communication in English.
2. Analyze, criticize and advocate ideas and reach well-supported conclusions.
3. Show skills and understanding beyond the level of intermediate algebra and apply mathematical concepts to solve problems.
4. Analyze and appreciate works of philosophical, historical, literary, aesthetic and cultural importance.
5. Reveal an historical understanding of major civilizations and cultures, both Western and non-Western.
6. Recognize the contributions to knowledge, civilization, and society that have been made by various ethnic or cultural groups.
7. Evaluate the basic concepts of physical and biological sciences.
8. Use the scientific method of inquiry and techniques to answer questions about physical and biological processes.

See General Education (Cal-GETC) (p. 57) for list of courses.

English as a Second Language



- ESL Pathway Behavioral and Social Sciences Certificate of Achievement (p. 204)
- ESL Pathway Business and Professional Studies Certificate of Achievement (p. 205)
- ESL Pathway Culture, People, and Ideas Certificate of Achievement (p. 205)
- ESL Pathway Environmental and Applied Technology Certificate of Achievement (p. 206)
- ESL Pathway Health Sciences Certificate of Achievement (p. 207)
- ESL Pathway Language and Communication Certificate of Achievement (p. 207)
- ESL Pathway STEM Certificate of Achievement (p. 208)
- ESL Pathway Visual and Performing Arts Certificate of Achievement (p. 208)

ESL Pathway Behavioral and Social Sciences Certificate of Achievement



The ESL Pathway Certificate program is designed to prepare English Language Learners (ELLs) for the academic rigor of degree-applicable coursework in the Behavioral and Social Sciences Academic and Career Pathway. Students completing these certificates have achieved academic English reading and writing skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education patterns. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, complete the required courses as listed with a grade of C or better.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate well-organized information, arguments and opinions through various modalities, including speaking and writing.
2. Analyze and evaluate academic texts to prepare for and complete academic writing.
3. Interact effectively with others in group work to complete academic tasks and work well in cross-cultural situations, taking into account others' diverse backgrounds, perspectives, and abilities.

Certificate of Achievement Requirements

Code	Title	Units
ESL-2	Accelerated Composition for English as a Second Language	6
ESL-122	College Rhetoric	6

Select three (3) units from the following:		3
ANTH-120	Cultural Anthropology	
CD-123	Principles and Practices of Programs and Curriculum for Young Children	
ETHN-107	History of Race & Ethnicity in the United States	
POLS-C1000	American Government and Politics	
POSC-140	Introduction to California Governments and Politics	
PSYC-C1000	Introduction to Psychology	
SW-110	Social Work Fields of Service	
SOCI-C1000	Introduction to Sociology	
Select three to four (3-4) units from the following:		3-4
COMM-C1000	Introduction to Public Speaking	
COMM-C1004	Interpersonal Communication	
MATH-120	Quantitative Reasoning	
PHIL-125	Critical Thinking and Philosophical Composition	
STAT-C1000	Introduction to Statistics	
Total Units		**18-19**

Certificate of Achievement

Students who complete the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

ESL Pathway Business and Professional Studies Certificate of Achievement

The ESL Pathway Certificate program is designed to prepare English Language Learners (ELLs) for the academic rigor of degree-applicable coursework in the Business and Professional Studies Academic and Career Pathway. Students completing these certificates have achieved academic English reading and writing skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education patterns. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, complete the required courses as listed with a grade of C or better.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate well-organized information, arguments and opinions through various modalities, including speaking and writing.
2. Analyze and evaluate academic texts to prepare for and complete academic writing.
3. Interact effectively with others in group work to complete academic tasks and work well in cross-cultural situations, taking into account others' diverse backgrounds, perspectives, and abilities.

Certificate of Achievement Requirements

Code	Title	Units
ESL-2	Accelerated Composition for English as a Second Language	6
ESL-122	College Rhetoric	6
Select three (3) units from the following:		3
BUS-110	Introduction to Business	
BUS-128	Business Communication	
BOT-100	Basic Keyboarding	
BOT-114	Essential Word	
BOT-115	Essential Excel	
BOT-117	Essential PowerPoint	
BOT-132	Google Applications for Business	
ECON-C2002	Principles of Macroeconomics	
PARA-100	Introduction to Paralegal Studies	
PARA-110	Civil Litigation Practice and Procedures	
PARA-130	Legal Research and Writing	
PARA-132	Computer Assisted Legal Research (CALR)	
PARA-135	Bankruptcy Law	
RE-190	Real Estate Principles	
RE-191	Real Estate Practice	
Select three to four (3-4) units from the following:		3-4
COMM-C1000	Introduction to Public Speaking	
COMM-C1004	Interpersonal Communication	
MATH-120	Quantitative Reasoning	
PHIL-125	Critical Thinking and Philosophical Composition	
STAT-C1000	Introduction to Statistics	
Total Units		**18-19**

Certificate of Achievement

Students who complete the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

ESL Pathway Culture, People, and Ideas Certificate of Achievement

The ESL Pathway Certificate program is designed to prepare English Language Learners (ELLs) for the academic rigor of degree-applicable coursework in the Culture, People, and Ideas Academic and Career Pathway. Students completing these certificates have achieved academic English reading and writing skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education

patterns. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, complete the required courses as listed with a grade of C or better.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate well-organized information, arguments and opinions through various modalities, including speaking and writing.
2. Analyze and evaluate academic texts to prepare for and complete academic writing.
3. Interact effectively with others in group work to complete academic tasks and work well in cross-cultural situations, taking into account others' diverse backgrounds, perspectives, and abilities.

Certificate of Achievement Requirements

Code	Title	Units
ESL-2	Accelerated Composition for English as a Second Language	6
ESL-122	College Rhetoric	6
Select three (3) units from the following:		3
ETHN-107	History of Race & Ethnicity in the United States	
HIST-107	History of Race & Ethnicity in the United States	
HIST-C1001	United States History to 1877	
HIST-118	U.S. History: Chicano/Chicana Perspectives I	
KUMY-116	Kumeyaay Arts and Culture I	
KUMY-117	Kumeyaay Arts and Culture II	
HUM-110	Principles of the Humanities	
PHIL-110	A General Introduction to Philosophy	
Select three to four (3-4) units from the following:		3-4
COMM-C1000	Introduction to Public Speaking	
COMM-C1004	Interpersonal Communication	
MATH-120	Quantitative Reasoning	
PHIL-125	Critical Thinking and Philosophical Composition	
STAT-C1000	Introduction to Statistics	
Total Units		**18-19**

Certificate of Achievement

Students who complete the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

ESL Pathway Environmental and Applied Technology Certificate of Achievement



The ESL Pathway Certificate program is designed to prepare English Language Learners (ELLs) for the academic rigor of degree-applicable coursework in the Environmental and Applied Technology Academic and Career Pathway. Students completing these certificates have achieved academic English reading and writing skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education patterns. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, complete the required courses as listed with a grade of C or better.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate well-organized information, arguments and opinions through various modalities, including speaking and writing.
2. Analyze and evaluate academic texts to prepare for and complete academic writing.
3. Interact effectively with others in group work to complete academic tasks and work well in cross-cultural situations, taking into account others' diverse backgrounds, perspectives, and abilities.

Certificate of Achievement Requirements

Code	Title	Units
ESL-2	Accelerated Composition for English as a Second Language	6
ESL-122	College Rhetoric	6
Select three to four (3-4) units from the following:		3-4
AUTO-099	Introduction to Automotive Technology	
AUTO-100L	Introduction to Automotive Technology Laboratory [1]	
CADD-115	Engineering Graphics	
CADD-119	Intro to CAD and Design	
CIS-120	Computer Maintenance and A+ Certification	
CS-165	Assembly Language and Machine Architecture	
CS-182	Introduction to Java Programming	
CWS-101	Fundamentals of Water & Wastewater	
CWS-102	Calculations in Water & Wastewater	
ENGR-100	Introduction to Engineering and Design	
EHSM-100	Introduction to Environmental and Occupational Safety and Health (OSH) Management	
OH-120	Fundamentals of Ornamental Horticulture	
Select three to four (3-4) units from the following:		3-4

COMM-C1000	Introduction to Public Speaking	
COMM-C1004	Interpersonal Communication	
MATH-120	Quantitative Reasoning	
PHIL-125	Critical Thinking and Philosophical Composition	
STAT-C1000	Introduction to Statistics	
Total Units		**18-20**

[1] Required laboratory for AUTO-099 Introduction to Automotive Technology

Certificate of Achievement

Students who complete the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

ESL Pathway Health Sciences Certificate of Achievement

The ESL Pathway Certificate program is designed to prepare English Language Learners (ELLs) for the academic rigor of degree-applicable coursework in the Health Science Academic and Career Pathway. Students completing these certificates have achieved academic English reading and writing skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education patterns. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, complete the required courses as listed with a grade of C or better.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate well-organized information, arguments and opinions through various modalities, including speaking and writing.
2. Analyze and evaluate academic texts to prepare for and complete academic writing.
3. Interact effectively with others in group work to complete academic tasks and work well in cross-cultural situations, taking into account others' diverse backgrounds, perspectives, and abilities.

Certificate of Achievement Requirements

Code	Title	Units
ESL-2	Accelerated Composition for English as a Second Language	6
ESL-122	College Rhetoric	6
Select three to four (3-4) units from the following:		3-4
BIOL-C1000	Introduction to Biology With Lab	
BIO-140	Human Anatomy	
ES-250	Introduction to Kinesiology	
HED-120	Personal Health and Lifestyles	
Select three to four (3-4) units from the following:		3-4
COMM-C1000	Introduction to Public Speaking	
COMM-C1004	Interpersonal Communication	
MATH-120	Quantitative Reasoning	
PHIL-125	Critical Thinking and Philosophical Composition	
STAT-C1000	Introduction to Statistics	
Total Units		**18-20**

Certificate of Achievement

Students who complete the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

ESL Pathway Language and Communication Certificate of Achievement

The ESL Pathway Certificate program is designed to prepare English Language Learners (ELLs) for the academic rigor of degree-applicable coursework in the Language and Communication Academic and Career Pathway. Students completing these certificates have achieved academic English reading and writing skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education patterns. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, complete the required courses as listed with a grade of C or better.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate well-organized information, arguments and opinions through various modalities, including speaking and writing.
2. Analyze and evaluate academic texts to prepare for and complete academic writing.
3. Interact effectively with others in group work to complete academic tasks and work well in cross-cultural situations, taking into account others' diverse backgrounds, perspectives, and abilities.

Certificate of Achievement Requirements

Code	Title	Units
ESL-2	Accelerated Composition for English as a Second Language	6
ESL-122	College Rhetoric	6
Select three to five (3-5) units from the following:		3-5
ASL-120	American Sign Language I	
ARBC-120	Arabic I	
COMM-C1000	Introduction to Public Speaking [1]	

COMM-C1004	Interpersonal Communication [1]	
ENGL-C1002	Introduction to Literature	
SPAN-120	Spanish I	
SPAN-121	Spanish II	
Select three to four (3-4) units from the following:		3-4
COMM-C1000	Introduction to Public Speaking [1]	
COMM-C1004	Interpersonal Communication [1]	
MATH-120	Quantitative Reasoning	
PHIL-125	Critical Thinking and Philosophical Composition	
STAT-C1000	Introduction to Statistics	
Total Units		**18-21**

[1] COMM-C1000 Introduction to Public Speaking and COMM-C1004 Interpersonal Communication can only be taken once for program credit.

Certificate of Achievement

Students who complete the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

ESL Pathway STEM Certificate of Achievement



The ESL Pathway Certificate program is designed to prepare English Language Learners (ELLs) for the academic rigor of degree-applicable coursework in the STEM Academic and Career Pathway. Students completing these certificates have achieved academic English reading and writing skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education patterns. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, complete the required courses as listed with a grade of C or better.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate well-organized information, arguments and opinions through various modalities, including speaking and writing.
2. Analyze and evaluate academic texts to prepare for and complete academic writing.
3. Interact effectively with others in group work to complete academic tasks and work well in cross-cultural situations, taking into account others' diverse backgrounds, perspectives, and abilities.

Certificate of Achievement Requirements

Code	Title	Units
ESL-2	Accelerated Composition for English as a Second Language	6
ESL-122	College Rhetoric	6
Select four to five (4-5) units from the following:		4-5
ASTR-C1001	Introduction to Astronomy	
ASTR-C1001L	Introduction to Astronomy Lab [1]	
BIOL-C1000	Introduction to Biology With Lab	
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology	
BIO-240	Principles of Ecology, Evolution and Organismal Biology	
CHEM-120	Preparation for General Chemistry	
MATH-C2210	Calculus I: Early Transcendentals	
PHYC-130	Fundamentals of Physics	
PHYC-201	Mechanics and Waves	
Select three to four (3-4) units from the following:		3-4
COMM-C1000	Introduction to Public Speaking	
COMM-C1004	Interpersonal Communication	
MATH-120	Quantitative Reasoning	
PHIL-125	Critical Thinking and Philosophical Composition	
STAT-C1000	Introduction to Statistics	
Total Units		**19-21**

[1] Required laboratory for ASTR-C1001 Introduction to Astronomy is ASTR-C1001L Introduction to Astronomy Lab

Certificate of Achievement

Students who complete the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

ESL Pathway Visual and Performing Arts Certificate of Achievement



The ESL Pathway Certificate program is designed to prepare English Language Learners (ELLs) for the academic rigor of degree-applicable coursework in the Visual and Performing Arts Academic and Career Pathway. Students completing these certificates have achieved academic English reading and writing skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education patterns. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, complete the required courses as listed with a grade of C or better.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate well-organized information, arguments and opinions through various modalities, including speaking and writing.

2. Analyze and evaluate academic texts to prepare for and complete academic writing.
3. Interact effectively with others in group work to complete academic tasks and work well in cross-cultural situations, taking into account others' diverse backgrounds, perspectives, and abilities.

Certificate of Achievement Requirements

Code	Title	Units
ESL-2	Accelerated Composition for English as a Second Language	6
ESL-122	College Rhetoric	6
Select three (3) units from the following:		3
ART-120	Two-Dimensional Design	
ART-124	Drawing I	
GD-105	Fundamentals of Digital Media	
MUS-110	Great Music Listening	
THTR-110	Introduction to the Theatre	
Select three to four (3-4) units from the following:		3-4
COMM-C1000	Introduction to Public Speaking	
COMM-C1004	Interpersonal Communication	
MATH-120	Quantitative Reasoning	
PHIL-125	Critical Thinking and Philosophical Composition	
STAT-C1000	Introduction to Statistics	
Total Units		**18-19**

Certificate of Achievement

Students who complete the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Course Descriptions

Common Course Numbering Information

A

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- Anthropology (ANTH) (p. 212)
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B

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C

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E

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H

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I

- Interdisciplinary Studies (IS) (p. 293)

K

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M

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N

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O

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P

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S

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T

- Theatre Arts (THTR) (p. 329)

W

- Work Experience (WEX) (p. 330)

American Sign Language (ASL)

ASL-120
American Sign Language I **4 UNITS**
4.0 hours lecture
Introduction to American Sign Language (ASL) and Deaf culture. The course is designed to give students with little to no experience in or exposure to ASL an emerging conversational and cultural foundation. Students will develop skills in telling about and comprehending common every day activities and asking questions. Students will learn how to use non-manual signs, facial expressions and other culturally appropriate uses of the face and body to interact with, show comprehension, get attention, and form appropriate cultural connections with Deaf people. (CSU/UC) (AA/AS-3)

ASL-121
American Sign Language II **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ASL 120 or equivalent
4.0 hours lecture
The second in a series of four American Sign Language (ASL) courses. Students are provided an opportunity to progress and enhance their ability to communicate in ASL. Students will continue the study of cultural analysis and comparisons, receptive skill comprehension, expressive skill production, and ASL linguistics. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ASL-125
American Sign Language with Infants and Toddlers **1 UNITS**
1.0 hours lecture
Explore the methods and benefits of using American Sign Language (ASL) with hearing infants and toddlers. Areas emphasized will be methods, benefits, and philosophies of teaching infants and toddlers to communicate using ASL. Upon completion, students will be able to introduce these techniques in early childhood classrooms and/or at home. (CSU)

ASL-126
American Sign Language With School Age Children **1 UNITS**
1.0 hours lecture
Explore the methods and benefits of using American Sign Language (ASL) with hearing school age children. Areas emphasized will be methods, benefits, and philosophies of teaching school age children to communicate using ASL. Upon completion, students will be able to introduce these techniques in elementary school classrooms and/or at home. (CSU)

ASL-130
American Sign Language: Fingerspelling I **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ASL 120 or equivalent ability to sign
3.0 hours lecture
This course is taught using American Sign Language (ASL). The primary focus of this course is to become skilled in use of the American manual alphabet (Fingerspelling). Students will develop an awareness of how and when fingerspelling should be used within ASL. Upon completion of the course, students will demonstrate skilled ability to accurately use and comprehend ASL fingerspelling and numbers within conversational contexts. (CSU/UC)

ASL-140
Inside Deaf Culture **3 UNITS**
3.0 hours lecture
This course will introduce students to the Deaf community and American Deaf culture. Deaf heritage, values, behaviors, historical perspectives, and the grammar structure of sign language will be examined. American Sign Language (ASL) literature, Deaf artists, social and political influences, and emerging technology for Deaf people will be studied. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ASL-220
American Sign Language III **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ASL 121 or equivalent
4.0 hours lecture
The third in a series of four American Sign Language (ASL) courses. Students are provided an opportunity to increase their receptive skill comprehension and expressive skill production. Cultural analysis and comparisons will focus on American Deaf cultural processes, practices, and products of Deaf culture. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ASL-221
American Sign Language IV **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ASL 220 or equivalent
4.0 hours lecture
The fourth in a series of four American Sign Language (ASL) courses. Students are provided an opportunity to increase their receptive skill comprehension and expressive skill production. Cultural analysis and comparisons will focus on American Deaf cultural processes, practices, and products of Deaf culture. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

Anthropology (ANTH)

ANTH-C1001
Introduction to Biological Anthropology **3 UNITS**
3.0 hours lecture
In this course, students examine human origins, evolution, and variation with a focus on the adaptations of humans and other primates. Biological evolution and scientific methods are foundations for the course. Topics covered include evolutionary theory, principles of genetics, biology and behavior of nonhuman primates, the fossil evidence for human and primate evolution, and modern human biological and cultural diversity. Formerly ANTH 130. Not open to students with credit in ANTH 130. (C-ID ANTH 110) (CSU/UC) (AA/AS-5, Cal-GETC-5B)

ANTH-120
Cultural Anthropology **3 UNITS**
3.0 hours lecture
The nature of culture; cultural growth and history; survey of the range of cultural phenomena including material culture, social organization, kinship systems, religion, language and other topics; systematic study of similarities and differences among cultures through investigation of selected societies. (C-ID ANTH 120) (CSU/UC) (AA/AS-4, Cal-GETC-4)

ANTH-140
Introduction to Archaeology **3 UNITS**
3.0 hours lecture
This course is an introduction to the field of archaeology; its concepts, theories, data and models that contribute to our knowledge of the human past. The course will provide an introduction to archaeological field methods of survey and excavation; categories of data and dating techniques; analysis; cultural resource management and professional ethics. Major developments in history will be examined using archaeological evidence. The relevance of archaeological research to contemporary society will also be addressed. (C-ID ANTH 150) (CSU/UC) (AA/AS-4, Cal-GETC-4)

Common Course Numbering

ANTH-C1001 Introduction to Biological Anthropology is a part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage.

Arabic (ARBC)

ARBC-120
Arabic I **5 UNITS**
5.0 hours lecture
Introduction to the Arabic language and the culture of its speakers. Facilitates the practical application of the language in everyday oral and written communication at the beginning novice level. Since the focus is on basic communication skills, the class will be conducted in modern standard Arabic as much as possible. While becoming familiar with the Arabic speaking world, students will learn structures that will enable them to function in Arabic in everyday contexts. (CSU/UC) (AA/AS-3)

ARBC-121
Arabic II **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ARBC 120 or two years of high school Arabic or equivalent
5.0 hours lecture
Continuation of Arabic I. Continues to develop oral and written skills based on practical everyday needs. Students with three years of high school Arabic should enroll in ARBC 220. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ARBC-122
Arabic for the Arabic Speaker I **5 UNITS**
5.0 hours lecture
Fundamentals of spoken and written Arabic for the bilingual speaker. This course is designed to help Arabic-speaking students further improve their oral and written communication skills. Emphasis on writing, reading comprehension, and vocabulary building at the intermediate level in a cultural context. Exposure to the diversity within the cultures of the Arabic-speaking world. This course is designed to provide the bilingual speaker with the linguistic and learning skills required for successfully completing upper division courses in Arabic. The course will be taught in Arabic. (CSU/UC) (AA/AS-3)

ARBC-123
Arabic for the Arabic Speaker II **5 UNITS**
Prerequisite: "C" grade or higher or Pass in ARBC 122 or equivalent
5.0 hours lecture
This course is designed to help Arabic-speaking students further improve their oral and written communication skills. In addition, it provides the bilingual speaker with the linguistic and learning skills required for successfully completing upper division courses in Arabic. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ARBC-130
Arabic Literature and Culture **3 UNITS**
Recommended Preparation: "C" or higher or "Pass" in Arabic 121 or equivalent or "C" grade or higher or "Pass" in ENGL C1000 or equivalent
3.0 hours lecture
This course surveys Arabic Literature masterpieces and/or Arabic literature in translation. The course focuses on the historical, social, religious, socio-political, philosophical, and cultural aspects of Arabic literature. It will be a great choice for Arabic learners, heritage speakers, native and non-native speakers of Arabic. A diverse selection of texts in Arabic and/or English is read and discussed to expand students' cultural horizons. Reading selections include works from the Pre-Islamic period, Islamic, Umayyads, Abbasids, and Modern period. Works of classical and modern writers will be included, in addition to prominent Arab-American and women writers. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ARBC-145
Arabic Civilizations **3 UNITS**
3.0 hours lecture
Introduction to the major characteristics of Arabic civilization as reflected in literature, philosophy, architecture, and the arts of Arabic countries. This course may have an emphasis on a selected Arabic country or countries. This course will be taught in Arabic/English. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ARBC-180
Basic Computer Skills for Arabic Learners **1 UNITS**
Recommended Preparation: "C" or higher or "Pass" in Arabic 120 or equivalent
1.0 hours lecture
Students will be provided with the basic information and skills needed to operate a computer efficiently to support Arabic classes with an emphasis on basic keyboarding techniques and typing in Arabic, editing and formatting text in Arabic, and creating, formatting, and editing PowerPoint presentations in Arabic. Includes an overview of file and folder management to store information, using computer input devices, searching the internet, and sending email with attachments. Also listed as BOT 180. Not open to students with credit in BOT 180. (CSU)

ARBC-220
Arabic III **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ARBC 121 or three years of high school Arabic or equivalent
5.0 hours lecture
Continuation of Arabic II. This course continues to develop oral, listening, reading, and writing skills in order to acquire proficiency in Arabic with an emphasis on building a wide range of cultural, communicative, and interactive competencies of Arabic language and culture using Modern Standard Arabic (MSA). Students with four years of high school Arabic should enroll in ARBC 221. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ARBC-221
Arabic IV **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ARBC 220 or ARBC 122 or four years of high school Arabic or equivalent
5.0 hours lecture
Continuation of Arabic III. The course continues to develop oral, reading, writing and listening skills in order to improve proficiency in Arabic while increasing the students' communicative and intercultural competencies, and their knowledge of Arab cultures. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ARBC-250
Conversational Arabic I **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ARBC 121 or 122 or 123 or 220 or 221 or three years of high school Arabic or equivalent
3.0 hours lecture
Develops oral, reading, writing, and listening skills, with an emphasis in oral proficiency. In this course students discuss a variety of relevant current, cultural, and social topics using Modern Standard Arabic (MSA). (CSU/UC) (AA/AS-3)

ARBC-251
Conversational Arabic II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ARBC 250 or ARBC 254 or ARBC 256 or four years of high school Arabic or equivalent
3.0 hours lecture
Continues to develop speaking, reading, writing, and listening skills, with an emphasis on oral proficiency. In this course students analyze and discuss a diverse selection of texts and other authentic resources using Modern Standard Arabic (MSA). Covers a variety of relevant cultural and social topics. (CSU/UC) (AA/AS-3)

ARBC-254
Conversational Iraqi Dialect **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ARBC 121 or 122 or 123 or 220 or 221 or three years of high school Arabic or equivalent
3.0 hours lecture
Focuses on intermediate level conversation development with vocabulary building and improvement of speaking proficiency using Iraqi dialect in the context of Arabic Iraqi culture. Conversations in the Iraqi dialect are based on culturally relevant vocabulary and idiomatic expressions that deal with everyday situations. The course will focus on speaking and phonetics of Iraqi Arabic. It will continue to develop oral, listening, reading, and writing skills with emphasis in oral proficiency. (CSU/UC) (AA/AS-3)

ARBC-256
Conversational Levantine Dialect **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ARBC 121 or 122 or 123 or 220 or 221 or three years of high school Arabic or equivalent
3.0 hours lecture
This course is an intermediate level conversation class with an emphasis on building vocabulary and developing communication skills using Levantine Arabic dialect ('lahjah shamiyyah'). The course aims on but not limited to develop speaking, listening, reading, and writing skills in a wide range of cultural contexts to enable students to interact effectively in everyday situations where Levantine Arabic is spoken. (CSU/UC) (AA/AS-3)

Aramaic (ARAM)

ARAM-120
Aramaic I **5 UNITS**
5.0 hours lecture
Introductory course to the classical-modern Aramaic language, essentials of grammar and pronunciation, and the Chaldean-Assyrian culture and civilization. Facilitates the practical application of the language in everyday oral and written communication at the beginning level. Students will learn structures that will enable them to function in Aramaic in everyday contexts while becoming familiar with the Aramaic speaking world. The origin of the Semitic languages will be surveyed through selected readings and discussions. Content equivalent to two years of high school language study. (CSU/UC) (AA/AS-3)

ARAM-121
Aramaic II **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ARAM 120 or equivalent
5.0 hours lecture
Continuation of Aramaic I. Aramaic 121 covers the classical-modern Aramaic alphabet, essentials of grammar and pronunciation, and the language of Chaldean-Assyrian culture and civilization. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ARAM-220
Aramaic III **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ARAM 121 or equivalent
5.0 hours lecture
Continuation of Aramaic II. Students will further their knowledge of classical-modern Aramaic grammar. The primary emphasis is on the conjugation of verbs, introduction to Aramaic literature, and the translation of ancient and modern text materials. Students will also learn how to compose and write essays in modern Aramaic (Chaldean). (CSU/UC) (AA/AS-3, Cal-GETC-3B)

Art (ART)

ART-100
Art Appreciation **3 UNITS**
3.0 hours lecture
In this introductory course, students will learn how to examine, compare, analyze, evaluate, interpret, and discuss works of visual art within their cultural contexts. Art media for study will include drawing, painting, printmaking, photography, sculpture, ceramics, textiles, film, architecture, etc. Works for examination will encompass representative artistic styles from western and other major world cultures, and will also include the artistic contributions of women and minority cultures. (C-ID ARTH 100) (CSU/UC) (AA/AS-3, Cal-GETC-3A)

ART-104
Artists and Designers Today **3 UNITS**
3.0 hours lecture
This course examines the wide variety of formats that contemporary artists work in today. It is an overview of current practices that enables students to gain insight into art, design, craft, media, and new genre disciplines, including but not limited to painting, sculpture, graphic design, interior design, industrial design, furniture design, photography, fibers, ceramics, metalwork, installation, performance, street art, and multimedia arts. Students will be introduced to how visual culture is contextualized, theorized, and displayed through curatorial studies and social media. Students will be exposed to course content through lectures, visiting artists' talks, readings, and visits to local galleries and museums. This course is designed for students beginning the study of art and/or related disciplines. (CSU)

ART-119
Color Theory **3 UNITS**
2.0 hours lecture, 4.0 hours laboratory
In the visual arts, color theory is the body of practical guidance for color mixing and the visual effects of a specific color combination. As an element of visual expression, color is both physical and psychological. This course will explore the principles, theories, and applications of additive and subtractive color in two dimensions. Topics will include major historical and contemporary color systems, production of projects in applied color, and the elements of design as they apply to the optical perception of color. (CSU/UC)

ART-120
Two-Dimensional Design **3 UNITS**
1.5 hours lecture, 4.5 hours laboratory
This course is an introduction to two-dimensional arts through the study of historical, theoretical, and cultural works of the human imagination. Students will examine form and content through the application of art elements and principles of design by developing the fundamentals needed for creative expression and visual composition. (C-ID ARTS 100) (CSU/UC) (AA/AS-3, Cal-GETC-3A)

ART-121
Painting I **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 120 or ART 124 or equivalent
1.5 hours lecture, 4.5 hours laboratory
Introduction to the principles, elements, and practices of painting. Students learn foundational painting tools, materials, techniques, and color theory while developing skills in rendering form, space, and the plastic qualities of acrylic and/or oil paint. Coursework emphasizes both technical proficiency and creative responses to subject matter, including an examination of painting as a vehicle for social, political, and cultural expression. (C-ID ARTS 210) (CSU/UC)

ART-124
Drawing I **3 UNITS**
1.5 hours lecture, 4.5 hours laboratory
This course is an introduction to drawing theory and practice. Students will explore traditional drawing techniques with an emphasis on representational drawing techniques, through a variety of media. Students will develop observational and compositional awareness through the application of drawing techniques utilizing the elements of art and applying the principles of art and design. (C-ID ARTS 110) (CSU/UC) (AA/AS-3)

ART-125
Drawing II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 124 or equivalent
2.0 hours lecture, 4.0 hours laboratory
Builds on the drawing techniques and composition concepts covered in ART 124 to include new mediums to address creative problem solving and refine drawing skills. Introduces brush, pen and ink into the drawing process with an emphasis on line quality and modeling using washes, hatching and stippling. Colored pencil and mixed media are explored using a variety of linear and tonal techniques. Scientific perspective is extended from ART 124 to include measuring, inclining planes, circles, shadows and reflections. (C-ID ARTS 205) (CSU/UC)

ART-129
Three-Dimensional Design **3 UNITS**
2.0 hours lecture, 4.0 hours laboratory
Introduction to the fundamental principles of three-dimensional composition emphasizing the formal elements and language of design. Basic visual, tactile and conceptual methods of defining space are examined in a series of compositional exercises. A variety of materials are used to explore the elements of line, shape, mass, texture and volume through the application of design principles such as balance, emphasis, rhythm, harmony, contrast, repetition, proportion, scale and unity. The historical development of design and aesthetics is studied along with how social, political and cultural beliefs have influenced artists and design professionals. Assignments are non-technical and do not require prior knowledge of tools and equipment. This is a comprehensive introductory course that could lead to future study in a diverse range of art and design professions. (C-ID ARTS 101) (CSU/UC) (AA/AS-3)

ART-135
Watercolor I **3 UNITS**
1.5 hours lecture, 4.5 hours laboratory
Introduction to basic watercolor tools, materials and techniques emphasizing color principles and skill development in watercolor media. (CSU/UC)

ART-142
Art of Africa, Oceania and the Americas **3 UNITS**
3.0 hours lecture
This course is an introduction to the visual arts produced by peoples of Africa, Oceania, and the Americas from the prehistoric to contemporary periods. Topics include art, design, and architecture, and emphasize how art represents each region's cultural, religious, social, and political orientations. This course is designed for art and art history majors as well as others interested in the humanities. (C-ID ARTH 140) (CSU/UC) (AA/AS-3, Cal-GETC-3A)

ART-143
Modern Art **3 UNITS**
3.0 hours lecture
Historical survey of the major art forms (primarily architecture, sculpture, ceramics, painting, printmaking and photography) of the late nineteenth and twentieth centuries with geographical emphasis on Europe and America. (C-ID ARTH 150) (CSU/UC) (AA/AS-3, Cal-GETC-3A)

ART-145
Contemporary Art **3 UNITS**
3.0 hours lecture
Survey of the major artists and art movements from 1945 to the present. Includes such major topics as the analysis and summary of Modernism, the transition from Modern to Post-Modern art, the emergence of non-traditional art media, and the analysis of the influence of global multiculturalism in art. Specific art practices such as painting, sculpture, earthworks, photography, performance, installation, printmaking and architecture will be discussed in relation to the cultural dialogue they establish or to which they respond. (CSU/UC) (AA/AS-3, Cal-GETC-3A)

ART-146
Asian Art **3 UNITS**
3.0 hours lecture
This course provides a select overview of art and architecture from India, Southeast Asia, China, Korea, and Japan, from prehistory to modern times with an emphasis on content, context, and style. The course covers subject matter, function, iconography, patronage, artistic methods and influences, and social and cultural contexts of artworks and monuments. The course includes art from: the Indus Valley, Early Buddhist and Hindu Art in Southeast Asia, later Indian art including Mughal, Neolithic through early Imperial China, Northern Wei through Tang dynasties, later China through contemporary era, Korea, archeological Japan through Heian, and later Japan through contemporary era. (C-ID ARTH 130) (CSU/UC) (AA/AS-3, Cal-GETC-3A)

ART-151
Chicanx Art **3 UNITS**
3.0 hours lecture
This course is a comprehensive overview of the major influences, themes, and styles in Chicanx Art from its emergence in the 1960s to the 21st century. Emphasis is placed on the historical, social, and cultural context of the Chicanx Art movement and the major forces that shape artistic creation within this field. Topics include Chicanx paintings, murals, prints, sculpture, installation, performance, and video. Students analyze the art and apply critical theory to describe critical events in the histories, cultures, and intellectual and artistic traditions of Latino/a Americans. This course is designed for all students interested in Chicana/o studies, Ethnic Studies, and for Art majors who want to explore a revolutionary contemporary art movement focused on cultural relevance, social action, and social justice, with a special focus on the lived experiences and social struggles of Latino/a Americans. (CSU/UC) (AA/AS-3, Cal-GETC-3A)

ART-177
Digital Drawing and Painting **3 UNITS**
1.5 hours lecture, 4.5 hours laboratory
This introductory course explores the tools, techniques, and creative possibilities of digital drawing and painting. Using contemporary computer-based technologies, including drawing tablets, painting and illustration software, scanners, and digital input devices, students will develop images that demonstrate perceptual skill, conceptual thinking, and narrative composition. Emphasis is placed on fundamental pictorial elements and how they function within composition, harmony, contrast, and balance. Students will create a range of digital artworks, including observational studies, illustrations, collage-based images, and sequential or narrative compositions. (CSU/UC)

ART-184
Introduction to Animation **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 120 or ART 124 or equivalent
1.5 hours lecture, 4.5 hours laboratory
A study of the principles of animation as they apply to 2D animation and form the foundation for further study of 3D animation. The course includes the history of animation, spanning from early black-and-white films to contemporary productions, while highlighting contributions from diverse voices and a wide array of cultural perspectives. It emphasizes the importance of fairness and belonging in shaping the art of animation throughout different periods and regions. Students will learn how these building blocks will lead to scripts, storyboards, and final animation utilizing hand-drawn and digital techniques. This course is designed to provide students with foundational skills to be successful in the field of animation. (CSU/UC)

ART-210
Introduction to Printmaking **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ART 120 or ART 124
1.5 hours lecture, 4.5 hours laboratory
This course is an introduction to the basic materials, equipment, and processes of printmaking, including relief (linocut and woodcut), intaglio (drypoint and collagraph), planography (monotype), and stencil (screen print). Topics will include major historical and contemporary cultural movements in printmaking, color, and design applications, as well as creative responses to materials and subject matter. (CSU/UC)

ART-211
Intermediate Printmaking **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 210 Introduction to Printmaking
2.0 hours lecture, 4.0 hours laboratory
This intermediate printmaking course explores color printing and approaches at a deeper level. It includes the integration of digital imagery and technologies to generate and alter images in preparation for traditional, physical, and hybrid printing processes. Topics will include current cultural movements in printmaking, complex color, and design applications, as well as individualized approaches to materials and subject matter. (CSU/UC)

ART-220
Painting II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 121 or equivalent
1.5 hours lecture, 4.5 hours laboratory
Continuation of Painting I with an emphasis on creative problem-solving skills. Students will develop a personal style of expression. Coursework emphasizes both technical proficiency and creative responses to subject matter, including an examination of painting as a vehicle for social, political, and cultural expression. (CSU/UC)

ART-221
Painting III **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 220 or equivalent
1.5 hours lecture, 4.5 hours laboratory
This advanced painting course offers a wider selection of painting mediums including acrylic, oil, and encaustic. Topics will include major historical and contemporary cultural movements in painting, as well as creative responses to materials and subject matter. Students will continue developing a personal style of expression. (CSU/UC)

ART-222
Painting IV **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 221 or equivalent
1.5 hours lecture, 4.5 hours laboratory
This advanced painting course is designed for students preparing to major in art or develop a professional-level painting portfolio. Working closely with the instructor, students will create a cohesive series of paintings that explore a personal theme or conceptual direction. Emphasis is placed on advanced painting techniques, complex compositional strategies, and the ability to document, analyze, and refine one's work. Students will engage with contemporary and historical painting practices. (CSU/UC)

ART-230
Figure Drawing I **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 124 or equivalent
2.0 hours lecture, 4.0 hours laboratory
Utilizes the skills and concepts developed in ART 124 to address the drawing of the nude human figure. Students will learn how articulation, standard proportion, bones and muscles influence the rendering of the human form. Drawing will be done from live models with studio lighting. Emphasis is on representational drawing with line and value. This course is important for anyone dealing with the human figure, i.e., drawing, painting, sculpture, photography, illustration, graphic design, fashion design, etc. (C-ID ARTS 200) (CSU/UC)

ART-231
Figure Drawing II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 230 or equivalent
2.0 hours lecture, 4.0 hours laboratory
Builds on the concepts and skills developed in ART 230. Surface anatomy related to the bone and muscle structure of the nude human form is studied along with the proportions and anatomy of the human head. Students will work with achromatic and chromatic drawing mediums. (CSU/UC)

ART-232
Figure Drawing III **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 231 or equivalent
2.0 hours lecture, 4.0 hours laboratory
Concentrates on integrating the human figure into a compositional environment. Figure drawing techniques from ART 230 and 231 will be integrated into the design process. (CSU/UC)

ART-233
Figure Drawing IV **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 232 or equivalent
2.0 hours lecture, 4.0 hours laboratory
Focuses on figurative artwork that develops a personal theme or statement. Students will be asked to explore several advanced compositional devices while pursuing their themes. This class emphasizes portfolio preparation. (CSU/UC)

ART-235
Watercolor II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 135 or equivalent
2.0 hours lecture, 4.0 hours laboratory
Continuation of Watercolor I techniques with an emphasis on creative problem solving and aesthetic compositions. (CSU/UC)

ART-236
Watercolor III **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 235 or equivalent
2.0 hours lecture, 4.0 hours laboratory
Continuation of Watercolor II skill and composition techniques. Students will develop a personal style of expression. (CSU/UC)

ART-240
Portraiture and Character Design **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ART 124 or equivalent
2.0 hours lecture, 4.0 hours laboratory
This course will enable students to develop a personal approach to portraiture through drawing methods and techniques, providing a concentrated examination of the human head, character, and anatomy. Students will explore how to work directly from the model using expressive drawing and multi-media approaches. Students will examine how portraiture and character design express ideas about power, social status, stages of life, gender, identity, and fantasy. They will also be introduced to a range of historical and contemporary artists whose work features the portrait as the subject matter. (CSU/UC)

ART-241
Illustration I **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 124 or equivalent
2.0 hours lecture, 4.0 hours laboratory
This course serves as an introduction to illustration. The course stresses the creative interpretation of subjects, situations, and themes within the context of commercial art such as advertising, editorial, book illustrations, cartooning, and renderings. Emphasis is on developing and communicating visual ideas and imagery. Various media and techniques will be explored. (CSU/UC)

ART-242
Illustration II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 241 or equivalent
2.0 hours lecture, 4.0 hours laboratory
This course is a continuation of the concepts and techniques presented in Illustration I. Increasingly more advanced illustration projects, techniques, concepts and methods will be presented. Emphasis is placed on the development of original concepts, refinements of techniques, production methods and development and presentation of portfolio quality artwork. In addition, rendering will be presented and incorporated in several projects. (CSU/UC)

ART-243
Perspective Drawing **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ART 124 or equivalent
2.0 hours lecture, 4.0 hours laboratory
This course introduces the fundamental principles of linear perspective drawing to create accurate, representational, three-dimensional space. Students will learn the concepts of 1, 2, and 3-point perspectives from observation and imagination. The course provides an overview of perspective concepts used in drawing, painting, and background layout for animation, focusing on composition, point of view, eye level, light, and shadows. (CSU/UC)

Common Course Numbering

ART-140 Survey of Western Art I: Prehistory through Middle Ages and ART-141 Survey of Western Art II: Renaissance through Modern have been changed to ARTH-C1100 Survey of Art from Prehistory to the Medieval Era and ARTH-C1200 Survey of Art from the Renaissance to Contemporary. See Art History (ARTH) Course Description page of the catalog.

Art History (ARTH)

ARTH-C1100
Survey of Art from Prehistory to the Medieval Era **3 UNITS**
3.0 hours lecture
This course introduces students to visual art and architecture from prehistory to the medieval era with a focus on art from Europe, North Africa, and the near East. The course will further consider global interactions involving these regions. Formerly ART 140. Not open to students with credit in ART 140. (C-ID ARTH 110) (CSU/UC) (AA/AS-3, Cal-GETC-3A)

ARTH-C1200
Survey of Art from the Renaissance to Contemporary **3 UNITS**
3.0 hours lecture
This course provides an overview of art and architecture from the Renaissance to the contemporary period with a focus on art from Europe. The course will further consider global interactions involving this region. Formerly ART 141. Not open to students with credit in ART 141. (C-ID ARTH 120) (CSU/UC) (AA/AS-3, Cal-GETC-3A)

Common Course Numbering

These courses are a part of the new Common Course Numbering system. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage (https://www.gcccd.edu/ccn/).

Astronomy (ASTR)

ASTR-C1001
Introduction to Astronomy **3 UNITS**
3.0 hours lecture
This course introduces fundamental concepts of astronomy, including the Solar System, stars, supernovae, galaxies, black holes, and the expanding universe. Students learn how to study the cosmos and what the latest discoveries reveal about the origins and fate of the universe. Students learn how to study the cosmos and what the latest discoveries reveal about the origins and fate of the universe. Formerly ASTR 110, not open to students with credit in ASTR 110. (CSU/UC) (AA/AS-5, Cal-GETC-5A)

ASTR-C1001L
Introduction to Astronomy Lab **1 UNITS**
Corequisite: Completion of or concurrent enrollment in ASTR C1001 or other locally approved astronomy lecture course
3.0 hours laboratory
This laboratory course reinforces fundamental principles and concepts of astronomy by applying the scientific method through experiments, observations, and/or simulations. Students gain practical experience with planetary, stellar, and lunar observations, celestial coordinates, and the use of basic astronomical instruments. Formerly ASTR 112, not open to students with credit in ASTR 112. (CSU/UC) (AA/AS-5, Cal-GETC-5C)

Common Course Numbering

ASTR-C1001 Introduction to Astronomy and ASTR-C1001L Introduction to Astronomy Lab are a part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage.

Automotive Technology (AUTO)

AUTO-099
Introduction to Automotive Technology **3 UNITS**
3.0 hours lecture
This course presents a basic overview of information about automotive systems. This course serves as a recommended preparation course for students interested in the Automotive Technology major, or for students who want to gain knowledge about vehicle servicing and repair. This course is complemented by AUTO 100L Laboratory where students are able to perform minor inspections, tests, and services to training vehicles using the department laboratory. (CSU)

AUTO-100L
Introduction to Automotive Maintenance and Light Repair Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course is designed to prepare students for entry into the Automotive Technology and Maintenance and Light Repair major. This course includes the basic maintenance and light repair procedures for a typical passenger car or light truck. A student will perform entry level maintenance procedures using automotive tools and equipment. AUTO 100L is the lab companion course of AUTO 099 Introduction to Automotive Technology lecture. (CSU)

AUTO-111
Engine Diagnosis and Repair **2 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in Automotive Technology 162T - Electronics Diagnosis and Repair Assessment Test Out
2.0 hours lecture
This classroom lecture course describes and demonstrates proper operation, disassembly, assembly, repair, and diagnostic techniques for gasoline and diesel engines including the proper timing procedures. The course also includes how to identify and measure critical clearances, and the theory and operation of various combustion engine designs and systems. (CSU)

AUTO-111L
Engine Diagnosis and Repair Laboratory **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in Automotive Technology 162T - Electronics Diagnosis and Repair Assessment Test Out
3.0 hours laboratory
This laboratory course allows a student to practice proper operation, disassembly, assembly, repair, and diagnostic techniques for gasoline and diesel engines including the proper timing procedures. Students will record and demonstrate critical clearance measurements. This course is the lab for students taking AUTO 111 Engine Diagnosis and Repair lecture, and or for students taking work experience and need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-111T
Engine Diagnosis and Repair Assessment Test Out **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in Automotive Technology 162T - Electronics Diagnosis and Repair Assessment Test Out
1.5 hours laboratory
This assessment course includes summative and repair of engine systems including diesel engines in the department laboratory; or by using distance education technologies such as augmented reality, virtual reality, or mobile technologies. The tests will include engine component systems such as pistons, bearings, camshafts, electronic and mechanical engine control systems, inputs, actuations, or other auxiliary systems. This course allows a student residing distance from training centers to complete certification requirements. This course is complemented by work experience AUTO 111 lecture, and AUTO 111L lab.

AUTO-121
Automatic Transmission Theory and Operation **2 UNITS**
2.0 hours lecture
This lecture course contains information about the theory and operation of automatic transmissions. The course topics include mechanical, hydraulic, and electronic controls of torque distribution. Current computerized control system operation and diagnosis of the drivetrain system will be emphasized. This course is complimented by AUTO 121L Automatic Transmission Theory and Operation Laboratory and AUTO 121T Automatic Transmission Theory and Operation Assessment Test Out. (CSU)

AUTO-121L
Automatic Transmission Theory and Operation Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course allows a student to practice proper operation, disassembly, and assembly for automatic transmissions. Students will record and demonstrate critical clearance measurements. This course is complimented by AUTO 121 Automatic Transmission Theory and Operation lecture, AUTO 121T Automatic Transmission Theory and Operation Assessment Test Out, and/or for students taking Work Experience who need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-121T
Automatic Transmission Theory and Operation Assessment Test Out **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out or equivalent
1.5 hours laboratory
This assessment course includes summative and criterion tests for students to prove knowledge, skills and abilities to perform transmission system repairs, including critical measurements of automatic transmission components using vehicles in the department laboratory; or by using distance education technologies such as augmented reality, virtual reality or mobile technologies. The tests will include drivetrain control systems such as hydraulics, friction clutches, electronic and mechanical transmission control systems, inputs, actuations, or other auxiliary systems. This course allows a student residing at a distance from training centers to complete certification requirements. This course is complemented by AUTO 121 Automatic Transmission Theory and Operation lecture and AUTO 121L Automatic Transmission Theory and Operation laboratory courses.

AUTO-126
Automatic Transmission Diagnosis and Testing **2 UNITS**
2.0 hours lecture
This lecture course provides training about diagnosing automatic transmission concerns. Topics include normal operation, electrical fault diagnosis, diagnosing shift concerns, diagnosing engagement concerns, and the diagnostic process. This course is preparation for ASE certification, and is complimented by AUTO 126L Automatic Transmission Diagnosis and Testing Laboratory, AUTO 126T Automatic Transmission Diagnosis and Testing Assessment Test Out, and/or by work experience. (CSU)

AUTO-126L
Automatic Transmission Diagnosis and Testing Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course describes and demonstrates proper operation, disassembly, assembly, repair, and diagnostic techniques for various automatic transmission types and designs, including FWD and RWD. The course also includes automatic transmission component diagnosis for electronic, hydraulic and mechanical subsystems. This course is the lab for students taking AUTO 126 Automatic Transmission Diagnosis and Testing lecture, and/or for students taking Work Experience who need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-126T
Automatic Transmission Diagnosis and Testing Assessment Test Out **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 121T Automatic Transmission Theory and Operation Assessment Test Out and AUTO 162T Electronics Diagnosis and Repair Assessment Test Out
1.5 hours laboratory
This assessment course includes summative and criterion tests for students to prove knowledge, skills and abilities to perform diagnosis and repair of automatic transmission systems in the department laboratory; or by using distance education technologies such as augmented reality, virtual reality, or mobile technologies. The tests will include automatic transmission component diagnosis for electronic, hydraulic, and mechanical subsystems. This course allows a student residing at a distance from training centers to complete certification requirements. This course is complemented by work experience, AUTO 126 lecture, and AUTO 126L lab.

AUTO-131
Manual Transmission and Transaxle Repair **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in Automotive Technology 162T - Electronics Diagnosis and Repair Assessment Test Out
1.0 hours lecture
This lecture course describes and demonstrates proper operation, disassembly, assembly, repair, and diagnostic techniques for various manual transmission types and designs including electronic shift. The course also includes relationship of torque and coupling using EV electric vehicle motors and traditional clutches. (CSU)

AUTO-131L
Manual Transmission and Transaxle Repair Laboratory **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in Automotive Technology 162T - Electronics Diagnosis and Repair Assessment Test Out
3.0 hours laboratory
This laboratory course describes and demonstrates proper operation, disassembly, assembly, repair, and diagnostic techniques for various manual transmission types and designs including electronic shift. The course also includes relationship of torque and coupling using EV electric vehicle motors and traditional clutches. This course is the lab for students taking AUTO 131 Manual Transmission and Transaxle lecture, and or for students taking work experience and need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-131T
Manual Transmission and Transaxle Repair Assessment Test Out **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in Automotive Technology 162T - Electronics Diagnosis and Repair Assessment Test out
1.5 hours laboratory
This student portfolio assessment course includes summative and criterion tests using actual transmission repair techniques to allow a student to demonstrate knowledge of proper operation, disassembly, assembly, repair, and diagnostic techniques for various manual transmission types and designs including electronic shift in the department laboratory or by using distance education technologies, live demonstrations, and recordings of work. The assessments will include various tests using transmissions, gears, clutch assemblies, and vehicle symptoms and conditions. This course allows a student residing distance from training centers to complete manufacturers certification requirements. This course compliments AUTO 131L Manual Transmission and Transaxle lab, 131 Lecture, and by work experience classes.

AUTO-132
Differential and 4WD Systems Diagnosis and Service **1 UNITS**
1.0 hours lecture
This lecture course includes a detailed study of modern automotive electronic or manually controlled differential and 4WD systems and service procedures. The course will describe systems inspection, adjustment and repair procedures, including methods of diagnosing and repairing various mechanical and hydraulic drivetrain systems using specified tools and procedures. This course is accompanied by AUTO 132L Differential and 4WD Systems Diagnosis and Service Laboratory, AUTO 132T Assessment Test Out, and Work Experience courses where students will perform specific ASE competencies related to differential and 4WD diagnosis and repair. (CSU)

AUTO-132L
Differential and 4WD Systems Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course describes and demonstrates proper operation, disassembly, assembly, repair, and diagnostic techniques for various differentials, transfer cases, and axles of standard and 4WD, and all-wheel drive systems types and designs, including electronic shift and hub locking. This course is the lab for students taking courses AUTO 132 Lecture, AUTO 132T Assessment Test Out, and/or for students taking Work Experience who need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-132T
Differential and 4WD Systems Assessment Test Out 0.5 UNITS
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out
1.5 hours laboratory
This assessment course includes summative and criterion tests using actual differential and 4WD repair techniques. This course allows a student to demonstrate knowledge of proper operation, disassembly, assembly, repair; and diagnostic techniques for various differentials, axles, 4WD, All-Wheel drive types and designs including electronic controls in the department laboratory or by using distance education technologies, live demonstrations, and recordings of work. The assessments will include various tests using differentials and transfer cases, gears, assemblies, and vehicle symptoms and conditions. This course allows a student residing at a distance from training centers to complete manufacturers certification requirements. This course accompanies AUTO 132L Differential and 4WD Systems Lab, 132 Lecture, and Work Experience classes.

AUTO-143
Steering and Suspension Diagnosis and Repair 1 UNITS
1.0 hours lecture
This course includes a detailed study of modern suspension systems and service procedures. This course includes inspection, adjustment, and repair procedures for suspension systems, including methods of diagnosing and repairing various mechanical and hydraulic components using specified tools and procedures. Alignments, adjustments, active suspension, and the relationship between suspension and vehicle dynamics, are demonstrated during lectures. This course is complemented by AUTO143L Steering and Suspension Diagnosis and Repair Laboratory, AUTO143T Steering and Suspension Diagnosis and Repair Assessment Test Out, and by Work Experience where students will perform specific ASE competencies related to suspension and steering diagnosis and repair. (CSU)

AUTO-143L
Steering and Suspension Diagnosis and Repair Laboratory 1 UNITS
3.0 hours laboratory
This laboratory course describes and demonstrates proper operation, disassembly, assembly, repair, and diagnostic techniques for various suspension and steering components. This course is the lab for students taking courses AUTO 143 Steering and Suspension Diagnosis and Repair Lecture, AUTO 143T Steering and Suspension Diagnosis and Repair Assessment Test Out, and/or for students taking Work Experience who need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-143T
Steering and Suspension Diagnosis and Repair Assessment Test Out 0.5 UNITS
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out
1.5 hours laboratory
This assessment course includes summative and criterion tests using actual suspension and steering description, diagnosis, and repair. This course allows a student to demonstrate knowledge of proper operation, disassembly, assembly, repair, and diagnostic techniques for various suspension and steering types and designs, including electronic controls in the department laboratory, or by using distance education technologies, live demonstrations, and recordings of work. The assessments will include various tests using vehicles with symptoms and conditions. This course allows a student residing at a distance from training centers to complete ASE certification requirements. This course accompanies AUTO 143L Steering and Suspension Diagnosis and Repair Laboratory, 143 Steering and Suspension Diagnosis and Repair lecture, and Work Experience classes.

AUTO-144
Noise, Vibration, and Harshness 0.5 UNITS
0.5 hours lecture
This course includes a detailed study of modern Noise, Vibration, and Harshness (NVH) systems and service procedures. This course includes inspection, adjustment, and repair procedures for NVH systems, including methods of diagnosing and repairing various mechanical, electronic, and hydraulic components using specified tools and procedures. This course is complemented by 144L NVH Lab, 144T NVH Assessment Test Out, and Work Experience where students will perform specific ASE competencies related to NVH diagnosis and repair. (CSU)

AUTO-144L
Noise, Vibration, and Harshness Laboratory 1 UNITS
3.0 hours laboratory
This laboratory course describes and demonstrates proper inspection and diagnostic techniques for various Noise, Vibration, and Harshness (NVH) symptoms and conditions. This course is the lab for students taking courses AUTO 144 Noise, Vibration, and Harshness lecture, AUTO 144T Noise, Vibration, and Harshness Assessment Test Out, and/or for students taking Work Experience. This course assists ASE task completions related to noise and vibration concerns. (CSU)

AUTO-144T
Noise, Vibration, and Harshness Assessment Test Out 0.5 UNITS
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 161T Electronics Diagnosis and Repair Assessment Test Out
1.5 hours laboratory
This assessment course includes summative and criterion tests using actual noise and vibration concerns, diagnosis, and repair procedures. This course allows a student to demonstrate knowledge of proper diagnostic techniques for various Noise, Vibration, and Harshness (NVH) concerns in the department laboratory or by using distance education technologies, live demonstrations, and recordings of work. The assessments will include various tests using vehicles with symptoms and conditions. This course allows a student residing at a distance from training centers to complete ASE certification requirements. This course compliments AUTO 144L Noise, Vibration, and Harshness Laboratory, 144 Noise, Vibration, and Harshness Lecture, and Work Experience classes.

AUTO-151
Brake System Diagnosis and Repair **2 UNITS**
2.0 hours lecture
This course includes a detailed study of modern automotive braking systems and service procedures. The course will demonstrate drum and disc brake systems inspection, adjustment and repair procedures, including methods of diagnosing and repairing various mechanical and hydraulic brake systems using specified tools and procedures. This course is complemented by AUTO 151L Brake System Laboratory, AUTO 151T Brake System Assessment Test Out, and by Work Experience in the dealership where students will perform specific ASE competencies. (CSU)

AUTO-151L
Brake System Diagnosis and Repair Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course describes and demonstrates proper inspection and diagnostic techniques for various brake symptoms and conditions. This course is the lab for students taking courses AUTO 151 Brake Diagnosis and Repair Lecture, AUTO 151T Brake Assessment Test Out, and/or for students taking Work Experience who need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-151T
Brake System Diagnosis and Repair Assessment Test Out **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out or equivalent
1.5 hours laboratory
This portfolio assessment course includes summative and criterion tests using vehicles with brake system concerns for diagnosis and repair. This course allows a student to demonstrate knowledge of proper diagnostic techniques for various brake component concerns in the department laboratory or by using distance education technologies, live demonstrations, and recordings of work. This course allows a student residing at a distance from training centers to complete ASE certification requirements. This course compliments AUTO 151L Brake Systems Laboratory, AUTO 151 Brake Systems Lecture, and Work Experience classes.

AUTO-153
Advanced Brake System Diagnosis and Repair **2 UNITS**
2.0 hours lecture
This lecture course includes a detailed study of automotive braking systems and service procedures. The course includes electronic braking systems inspection, adjustment and repair procedures, including methods of diagnosing and repairing various electro mechanical and hydraulic brake systems using specified tools and procedures. This course is complemented by AUTO 153L Advanced Brake System Lab, AUTO 153T Advanced Brake Assessment, and by Work Experience courses at the dealership where students will perform specific ASE competencies related to advanced brake diagnosis and repair. (CSU)

AUTO-153L
Advanced Brake System Diagnosis and Repair Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course describes and demonstrates proper inspection and diagnostic techniques for various electronic brake symptoms and conditions. Electronic braking system components and operation are covered in this course. This course is the lab for students taking courses AUTO 153 Advanced Brake System Diagnosis and Repair Lecture, AUTO 153T Advanced Brake System Assessment Test Out, and/or for students taking Work Experience who need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-153T
Advanced Brake System Assessment Test Out **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out and AUTO 151T Brake System Diagnosis and Repair Assessment Test Out or equivalent
1.5 hours laboratory
This portfolio assessment course includes summative and criterion tests for students to prove knowledge, skills, and abilities to perform diagnosis and repair of active brake systems on vehicles in the department laboratory; or by using distance education technologies such as augmented reality or virtual reality. The tests will include recorded and live student demonstrations used for observation and assessment. This course allows a student residing at a distance from training centers to complete certification requirements prior to performing warranty service at a dealership. This course is complemented by AUTO 153 Advanced Brake System Diagnosis and Repair lecture, AUTO 153L Advanced Brake System Lab, and by Work Experience at a dealership.

AUTO-161
Electrical Diagnosis and Repair **2 UNITS**
2.0 hours lecture
This lecture course includes electrical systems theory, diagnosis and repair procedures utilizing state of the art equipment. Systems covered include storage, generating and starting. Accessory systems covered include lighting, power seats, power door locks, cruise controls, electric windows, electronic dashboards, radios, windshield wipers, and introduction to electronic systems such as transistors and electronic computer controls.

AUTO-161L
Electrical Diagnosis and Repair Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course describes and demonstrates proper operation, repair, and diagnostic techniques for automotive electrical systems. The course also includes the theory of electricity as related to lighting, power seats, power door locks, cruise controls, electric windows, electronic dashboards, radios, windshield wipers and other automotive systems. This course is the lab for students taking AUTO 161 Electrical Diagnosis and Repair lecture, or for students taking work experience who need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-161T
Electrical Diagnosis and Repair Assessment Test Out **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 161L Electrical Diagnosis and Repair Laboratory or equivalent
1.5 hours laboratory
This assessment course includes hands-on summative and criterion tests for students to prove knowledge skills and abilities to perform diagnosis and repair of electrical systems in the department laboratory, or by using distance education technologies such as augmented reality, virtual reality, or mobile technologies. The tests will include electrical systems such as lighting, power seats, power door locks, cruise controls, electric windows, electronic dashboards, radios, windshield wipers, or other systems. This course allows students who reside at a distance from training centers to complete certification requirements. This course is complemented by work experience, AUTO 161 lecture, and AUTO 161L lab.

AUTO-162
Electronics Diagnosis and Repair **2 UNITS**
2.0 hours lecture
This lecture course includes electronic system theory, diagnosis and repair procedures utilizing state of the art equipment. This course applies basic electrical test applications incorporating electronic controls units and computer networks. Covers various vehicle computer functions such as: body electronics, infotainment systems, and safety restraints systems. Students will use test equipment to measure sensor outputs used for computer component activation, and study vehicle electronic wiring diagrams in-depth, gaining knowledge, skills and abilities to perform complex tests.

AUTO-162L
Electronics Diagnosis and Repair Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course describes and demonstrates proper diagnosis and repair of electronics systems of modern vehicles in the department laboratory, or by using distance education technologies such as augmented reality or virtual reality. The course also includes diagnosis of automotive computer modules, inputs and outs. This course is the lab for students taking AUTO 162 Electronics Diagnosis and Repair lecture, and or for students who are taking work experience and who need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-162T
Electronics Diagnosis and Repair Assessment Test Out **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 161T Electrical Diagnosis and Repair Assessment Test Out
1.5 hours laboratory
This assessment course includes summative and criterion tests for students to prove knowledge skills and abilities to perform diagnosis and repair of automotive electronic systems in the department laboratory; or by using distance education technologies such as augmented reality, virtual reality, or mobile technologies. The tests will include electronic component diagnosis and repair using scan tools, digital multi-meters, and lab-scopes. This course allows students who reside at a distance from training centers to complete certification requirements. This course is complemented by work experience, AUTO 162 lecture, and AUTO 162L lab.

AUTO-163T
Ford Electrical and Electronic Supplemental Assessment Test Out **1.5 UNITS**
Prerequisite: Acceptance into Ford ASSET and/or Ford ACE program by faculty approval
Recommended Preparation: Currently co-enrolled or "C" grade or higher or "Pass" in AUTO 161T Electrical Diagnosis and Repair Assessment Test Out and in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out or equivalent
4.5 hours laboratory
This Ford course provides the foundation needed to perform electrical and electronic testing for certified warranty repairs. Topics include electrical and electronic theory and components, using the Digital Multimeter (DMM) and Ford Diagnostic scan tool, navigating the workshop manual and wiring diagrams, and diagnosis and testing of electrical and electronic circuits.

AUTO-171
Climate Control System Diagnosis and Repair **1 UNITS**
1.0 hours lecture
This lecture course demonstrates and describes climate control systems, theory, diagnosis and repair procedures utilizing state of the art equipment. This course applies basic heating and air conditioning test applications incorporating electronic controls units and computer networks. This course covers various vehicle computer functions such as: body electronics, climate control units, and electric vehicle and hybrid vehicle climate system operations. This course is preparation for ASE certification, and complemented by AUTO 171L Climate Control Diagnosis and Repair Lab, AUTO 171T Climate Control Diagnosis and Repair Assessment Test Out, and by Work Experience at the dealership. (CSU)

AUTO-171L
Climate Control System Diagnosis and Repair Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course describes and demonstrates proper inspection and diagnostic techniques for various electronic climate control symptoms and conditions. This course is the lab for students taking courses AUTO 171 Climate Control System Diagnosis lecture, AUTO 171T Climate Control System Assessment Test Out, and/or for students taking a Work Experience course who need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-171T
Climate Control System Diagnosis and Repair Assessment Test Out **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out
1.5 hours laboratory
This portfolio assessment course includes summative and criterion tests for students to prove knowledge, skills, and abilities to perform diagnosis and repair of climate control systems on vehicles in the department laboratory, or by using distance education technologies, such as augmented reality or virtual reality. The tests will include recorded and live student demonstrations used for observation and assessment. This course allows a student residing at a distance from training centers to complete certification requirements prior to performing warranty service at a dealership. This course is complemented by AUTO 171 Climate System Diagnosis lecture, AUTO 171L Climate Diagnosis Lab, and by Work Experience at a dealership.

AUTO-181
Engine Performance I Ignition and Fuel Systems **2 UNITS**
2.0 hours lecture
This lecture course includes an in-depth study of ignition and fuel system engine controls on modern automobiles and trucks, including the diagnosis and repair of these systems. On-board computer logic and strategies of ignition and fuel systems will provide the knowledge needed to describe fundamental engine performance theory and operation. This course is complimented by AUTO 181L Engine Performance I Ignition and Fuel Systems Laboratory, AUTO 181T Engine Performance I Ignition and Fuel Systems Assessment Test Out, and Work Experience courses. (CSU)

AUTO-181L
Engine Performance I Ignition and Fuel Systems Laboratory 1 UNITS
3.0 hours laboratory
This laboratory course demonstrates proper inspection and diagnostic techniques for various engine performance symptoms and conditions, including ignition and fuel systems operations. This course is the laboratory practice opportunity for students taking courses AUTO 181 Engine Performance I Ignition and Fuel Systems lecture, AUTO 181T Engine Performance I Ignition and Fuel Systems Assessment Test Out, and for students taking Work Experience to attain required ASE competencies. (CSU)

AUTO-181T
Engine Performance I Ignition and Fuel Systems Assessment Test Out 0.5 UNITS
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out
1.5 hours laboratory
This assessment course includes summative and criterion tests for students to prove knowledge, skills, and abilities to perform diagnosis and repair of engine performance systems on vehicles in the department laboratory, or by using distance education technologies, such as augmented reality or virtual reality. The tests will include recorded and live student demonstrations used for observation and assessment. This course allows a student residing at a distance from training centers to complete certification requirements. This course is the assessment for AUTO 181 Engine Performance I Ignition and Fuel Systems lecture, AUTO 181L Engine Performance I Ignition and Fuel Systems Laboratory, and Work Experience courses.

AUTO-183
Engine Performance II Intake Exhaust and Emission Systems 2 UNITS
2.0 hours lecture
This lecture course provides the knowledge and skills needed to describe and identify engine performance diagnosis and testing methods of the intake, exhaust, and emission control systems. This course demonstrates diagnostic processes of normally aspirated, forced air systems, exhaust treatment, lambda sensor inputs, and various emission controls. This course is part of a three course series including AUTO 183L Engine Performance II Intake, Exhaust and Emission Systems Laboratory, AUTO 183T Engine Performance II Intake, Exhaust and Emission Systems Assessment Test Out, and Work Experience courses. (CSU)

AUTO-183L
Engine Performance II Intake Exhaust Emission Systems Laboratory 1 UNITS
3.0 hours laboratory
This laboratory course describes and demonstrates proper inspection and diagnostic techniques for various engine performance symptoms and conditions, including intake and exhaust systems operations. This course is the laboratory opportunity for students taking courses AUTO 183 Engine Performance II Intake Exhaust Emission Systems lecture, AUTO 183T Engine Performance II Intake Exhaust Emission Systems Assessment Test Out, and for students taking Work Experience for required ASE competencies. (CSU)

AUTO-183T
Engine Performance II Intake Exhaust Emission Systems Assessment Test Out 0.5 UNITS
Recommended Preparation: "C" grade or higher or "Pass" 162T Electronics Diagnosis and Repair Assessment Test Out or the equivalent
1.5 hours laboratory
This assessment course includes summative and criterion tests for students to prove knowledge, skills, and abilities to perform diagnosis and repair of engine performance systems on vehicles in the department laboratory, or by using distance education technologies such as augmented reality or virtual reality. The tests will include recorded and live student demonstrations used for observation and assessment. This course allows a student residing at a distance from training centers to complete ASE certification requirements. This course is the assessment for AUTO 183 Engine Performance II Intake Exhaust Emission Systems lecture, AUTO 183L Engine Performance II Intake Exhaust Emission Systems Laboratory, and Work Experience courses.

AUTO-194
Diesel Engine Performance and Diagnosis 2 UNITS
2.0 hours lecture
This lecture training course describes and demonstrates diesel engine performance concerns and diagnosis, which includes the use of service publications, diagnostic tests and procedures, as well as special tools and equipment. The information and exercises presented in this course are focused on the common rail diesel engines with electronic fuel injection. This is the lecture course for 194L Diesel Engine Performance and Diagnosis Laboratory and 194T Diesel Engine Performance and Diagnosis Assessment Test Out courses. (CSU)

AUTO-194L
Diesel Engine Performance and Diagnosis Laboratory 1 UNITS
3.0 hours laboratory
This laboratory course describes and demonstrates proper inspection and diagnostic techniques for various diesel engine performance symptoms and conditions, including fuel systems operations. This course is the laboratory practice opportunity for students taking courses AUTO 194 Diesel Engine Performance and Diagnosis lecture, and Diesel Engine Performance and Diagnosis Assessment Test Out, and/or for students taking a Work Experience course who need additional instruction and practice completing required ASE competencies and tasks. (CSU)

AUTO-194T
Diesel Engine Performance and Diagnosis Assessment Test Out 0.5 UNITS
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out or the equivalent
1.5 hours laboratory
This portfolio assessment course includes summative and criterion tests for students to prove knowledge, skills, and abilities to perform diagnosis and repair of diesel engine performance systems on vehicles in the department laboratory, or by using distance education technologies such as augmented reality or virtual reality. The tests will include recorded and live student demonstrations used for observation and assessment. This course allows a student residing at a distance from training centers to complete certification requirements prior to performing warranty service at a dealership. This course is the assessment of AUTO 194 Diesel Engine Performance and Diagnosis lecture, AUTO 194L Diesel Engine Performance and Diagnosis Lab, and is complemented by Work Experience at a dealership.

AUTO-210
Service Management **3 UNITS**
3.0 hours lecture
This lecture course prepares students for management operations of independent Automotive Repair Dealers (ARDs) and/or manufacturer franchise dealerships. This is an in-depth course about service procedures, customer relations, government regulation, licensing, compliance, repair orders, and warranty policies. (CSU)

AUTO-211
Automotive Customer Service **2 UNITS**
2.0 hours lecture
This lecture course prepares students to work in the automotive industry as a service consultant, parts department representative, sales associate, or similar customer service position where communication skills are paramount to customer satisfaction and business success. (CSU)

AUTO-212
Automotive Work Experience **1-4 UNITS**
Students who seek employment in automotive businesses, full-time or part-time, and are able to work specified hours during the semester, are eligible to enroll in this course. Assessment of students will be performed by the instructor using surveys of the mentor and manager, and student self-reflection based on the agreed upon objectives of the course. Work experience compliments classroom curriculum, and is considered essential for student competency. Occupational work experience credit may accrue at the rate of one to four units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. This course may be elected up to five times for a maximum of 16 units. 54 hours paid or unpaid work experience per unit, 1-4 units. (CSU)

AUTO-213
ASCCA - Work Experience **1-4 UNITS**
Automotive Service Councils of California (ASCCA) work experience. Students will attain a sponsoring automotive repair business or approved affiliated business at the start of the training program. This course may be paid work experience at the sponsoring Automotive Repair Dealer (ARD). Students work in the area of emphasis that is concurrent with area of training most recently completed at the college, in order to develop skills attained in the ASE content. Occupational work experience credit may accrue at the rate of one to eight units per semester for a total of twelve - sixteen units, and students must work 54 paid hours per unit earned. Twelve - sixteen units must accrue for graduation or certification. 54 hours paid work experience per unit, 1-4 units. (CSU)

AUTO-214
General Motors ASEP Work Experience **1-4 UNITS**
General Motors ASEP work experience. Students will be placed with a sponsoring dealer at the start of the training program. This course is based on paid work experience at the sponsoring dealership. Assessment of students will be performed by the ASEP coordinator in discussion with appropriate dealership personnel. Students are expected to work in the area of emphasis that is concurrent with area of training most recently completed at the college in order to further develop skills attained in the classroom setting. Occupational work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours per unit earned. Must be taken for a total 12-16 units. 54 hours paid work experience per unit, 1-4 units. (CSU)

AUTO-215
Ford ASSET-Work Experience **1-4 UNITS**
Ford ASSET work experience. Students are responsible for attaining sponsoring dealership employment before enrollment in the work experience course. This course is based on paid work experience at the sponsoring Ford dealership. Assessment of students will be performed by the ASSET Instructor with dealership personnel, including the lead technicians, shop foreman, service manager, and through student self-evaluation reflections. Students are expected to work in the content area of diagnosis and repair concurrent with the content area of instruction in order to further develop skills attained in the classroom setting. Ford certifications will not be attained without documentation completed and signed by the student and evaluators in the work experience record book. Each student is required to use a digital portfolio to document competencies and ASE tasks. Occupational work experience credit may accrue at the rate of one to eight units per semester for a total of twelve - sixteen units, and students must work 54 paid hours per unit earned. 54 hours paid work experience per unit, 1-4 units. (CSU)

AUTO-263
Advanced Electronics **1 UNITS**
1.0 hours lecture
This lecture course will demonstrate and describe how to program software and perform module updates to networked systems. Examples of anti-theft and remote entry with advanced inputs and out-puts may have module related concerns requiring hard fault diagnosis of modules, and networks using integrated scan tools, and tests of network signals using lab scopes for intermittent network concerns. This course is the lecture course accompanying AUTO 263L Advanced Electronics Laboratory, and AUTO 263T Advanced Electronics Assessment Test Out. Work Experience courses at an automotive workplace support competency practice and evaluations critical for student success. (CSU)

AUTO-263L
Advanced Electronics Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course describes and demonstrates proper inspection and diagnostic techniques for various network symptoms and conditions, including programing and fault symptom processes. This course is the laboratory practice opportunity for students taking courses AUTO 263 Advanced Electronics lecture, AUTO 263T Advanced Electronics Assessment Test Out, and/or for students taking a Work Experience course who need additional instruction and practice completing required ASE competencies and tasks required for certification. (CSU)

AUTO-263T
Advanced Electronics Assessment Test Out **0.5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out or the equivalent
1.5 hours laboratory
This portfolio assessment course includes summative and criterion tests for students to prove knowledge, skills, and abilities to perform diagnosis and repair of engine network systems on vehicles in the department laboratory, or by using distance education technologies such as augmented reality or virtual reality. The tests will include recorded and live student demonstrations used for observation and assessment. This course allows a student residing at a distance from training centers to complete certification requirements prior to performing warranty service at a dealership. This course is the assessment of AUTO 263 Advanced Electronics lecture, and AUTO 263L Advanced Electronics Lab. Work Experience at a dealership will ensure a student is prepared to perform network service and repair based on competency evaluation.

AUTO-264
Hybrid and Electric Vehicle Operation and Diagnosis **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test out or the equivalent
1.0 hours lecture
This lecture is a manufactures course required for certification of hybrid and electric vehicle (EV) systems for passenger cars and light trucks. The history of battery technologies will apply charging and repair techniques from first generation to present day EVs. EV technologies have evolved rapidly, requiring different methods of service for each new generation and system version. High voltage systems are dangerous. Proper safety procedures for hybrid and EV systems are required and emphasized. This course uses actual hybrids and EVs to perform electrical and electronic diagnosis of various systems. Students must have prerequisite knowledge and skill certifications of automotive electronics prior to enrolling in this course. This course is complemented by AUTO 264L Hybrid and Electric Vehicle Operation and Diagnosis Laboratory and AUTO 264T Hybrid and Electric Vehicle Operation and Diagnosis Assessment Test Out. (CSU)

AUTO-264L
Hybrid and Electric Vehicle Operation and Diagnosis Laboratory **1 UNITS**
3.0 hours laboratory
This laboratory course describes and demonstrates proper inspection and diagnostic techniques for various hybrid and electric vehicle symptoms and conditions, including high voltage battery and fault symptom processes. This course is the laboratory practice opportunity for students taking courses AUTO 264 Hybrid and Electric Vehicle Operation and Diagnosis lecture, AUTO 264T Hybrid and Electric Vehicle Operation and Diagnosis Assessment Test Out, and/or for students taking a Work Experience course who need additional instruction and practice completing required ASE competencies and tasks required for certification. (CSU)

AUTO-264T
Hybrid and Electric Vehicle Operation and Diagnosis Assessment Test Out **0.5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out or the equivalent
1.5 hours laboratory
This portfolio assessment course includes summative and criterion tests for students to prove knowledge, skills, and abilities to perform diagnosis and repair of automotive hybrid and electric vehicle systems in the department laboratory; or by using distance education technologies such as augmented reality, virtual reality, or mobile technologies. The tests include high voltage electronic component diagnosis and repair using scan tools, digital multi-meters, and lab scopes. This course allows a student residing at a distance from training centers to complete certification requirements. This course is complemented by Work Experience, AUTO 264 Hybrid and Electric Vehicle Operation and Diagnosis lecture, and AUTO 264L Hybrid and Electric Vehicle Operation and Diagnosis Laboratory courses.

AUTO-283
Advanced Engine Performance **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" or the equivalent in: AUTO 162T Electronics Diagnosis and Repair Assessment Test Out, and 181T Engine Performance I Ignition and Fuel Systems Assessment Test Out, and 183T Engine Performance II Intake Exhaust Emissions Systems Assessment Test Out
1.0 hours lecture
This lecture course describes and demonstrates proper diagnosis and repair of advanced engine performance systems using diagnostic methods, including programming. Use the scan tool, reference values, mode 6 data, and follow pinpoint tests to diagnose intermittent related DTC's and symptoms. This course is part of a three course series including 283L Advanced Engine Performance Laboratory, 283T Advanced Engine Performance Assessment Test Out, and Work Experience courses. (CSU)

AUTO-283L
Advanced Engine Performance Laboratory **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" or the equivalent in: AUTO 162T Electronics Diagnosis and Repair Assessment Test Out, and 181T Engine Performance I Ignition and Fuel Systems Assessment Test Out, and 183T Engine Performance II Intake Exhaust Emission Systems Assessment Test Out
3.0 hours laboratory
This laboratory course describes and demonstrates proper inspection and diagnostic techniques for various advanced engine performance symptoms and conditions, including intermittent problems affecting ignition and fuel systems operations. This course is the laboratory practice opportunity for students taking courses AUTO 283 Advanced Engine Performance lecture, AUTO 283T Advanced Engine Performance Assessment Test Out, and/or for students taking a Work Experience course and need additional instruction and practice completing required ASE competencies. (CSU)

AUTO-283T
Advanced Engine Performance Assessment Test Out **0.5 UNITS**
Prerequisite: "C" grade or higher or "Pass" or the equivalent in: AUTO 162T Electronics Diagnosis and Repair Assessment Test Out, and 181T Engine Performance I Ignition and Fuel Systems Assessment Test Out, and 183T Engine Performance II Intake Exhaust Emission Systems Assessment Test Out
1.5 hours laboratory
This assessment course includes summative and criterion tests for students to prove knowledge, skills, and abilities to perform diagnosis and repair of advanced engine performance systems on vehicles in the department laboratory, or by using distance education technologies such as augmented reality or virtual reality. The tests will include recorded and live student demonstrations used for observation and assessment. This course allows a student residing at a distance from training centers to complete ASE certification requirements. This course is the assessment of AUTO 283 Advanced Engine Performance lecture, AUTO 283L Advanced Engine Performance Laboratory, and is complimented by Work Experience courses.

AUTO-284

Level I Inspector Training Emission Control License 2 UNITS

2.0 hours lecture

This lecture course contains the theory of operation and inspection of emission control devices with strong emphasis on federal and state laws and regulations required for licensing and testing of vehicles. This course describes the most current testing devices used for inspection procedures approved by the State of California Bureau of Automotive Repair (BAR). This course prepares students to take the BAR Inspector Only (I.O.) licensing examination. Experienced candidates may skip Level I training if they possess ASE A6, A8, and L1 certification; or have an AA/AS degree or certificate in Automotive Technology and have 1 year experience; or have 2 years of experience and have completed BAR specified diagnostic and repair training. (CSU)

AUTO-284L

Level I Inspector Training Emission Control License Laboratory 1 UNITS

3.0 hours laboratory

This laboratory course describes and demonstrates proper inspection and testing techniques for various emission systems and conditions including, exhaust, evaporative fuel controls, monitors, forced air, and normally aspirated. This course is the laboratory practice opportunity for students taking courses AUTO 284 Level I Inspector Training lecture, AUTO 284T Level I Inspector Training Assessment Test Out, and/or for students taking a Work Experience course at a Smog Inspection Station who need additional instruction and practice completing required ASE competencies and tasks required to properly perform inspections. (CSU)

AUTO-284T

Level I Inspector Training Emission Control License Assessment Test Out 0.5 UNITS

Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out, AUTO 181T Engine Performance I Ignition and Fuel Systems Assessment Test Out, and AUTO 183T Engine Performance II Intake, Exhaust and Emission Systems Assessment Test Out

1.5 hours laboratory

This assessment course includes summative and criterion tests for students to prove knowledge, skills, and abilities to perform emission system inspections in the department laboratory, or by using distance education technologies such as augmented reality or virtual reality. The tests will include recorded and live student demonstrations used for observation and assessment. This course allows students residing at a distance from training centers to complete certification requirements prior to performing warranty service at a dealership. This course is the assessment of AUTO 284 Inspector Level I Emissions lecture, AUTO 284L Level I Inspector Emission Training Lab, and complimented by Work Experience at a Smog Inspection Station.

AUTO-285

Level II Inspector Training Emission Control License 1 UNITS

1.0 hours lecture

This lecture class of smog check procedures training must be completed by all Inspector candidates. This training provides students the procedural knowledge skills and abilities to describe and identify emission inspection procedures. This lecture course is part of a three course series: 285 lecture is accompanied by 285 Lab, and 285 Assessment Test Out, required prior to taking the Bureau of Automotive Repair (BAR) Smog Inspector state licensing examination. To pass level II training students must pass a series of hands-on assessments and a written examination. This course is designed for experienced students who possess ASE A6, A8, and L1 certification; or possess an AA/AS degree or Certificate(s) in automotive technology and have 1 year experience; or have 2 years of experience and have completed BAR specified diagnostic and repair training. (CSU)

AUTO-285L

Level II Inspector Training Emission Control License Laboratory 1 UNITS

3.0 hours laboratory

This laboratory course is designed for students with vast engine performance experience and knowledge to perform complete smog inspections on various vehicles and designs. This course is the laboratory practice opportunity for students taking courses AUTO 285 Level II Inspector Training lecture, AUTO 285T Level II Inspector Training Assessment Test Out, and/or for students taking a Work Experience course at a Smog Inspection Station who need additional instruction and practice completing required ASE competencies and tasks required to properly perform inspections. (CSU)

AUTO-285T

Level II Inspector Training Emission Control License Assessment Test Out 0.5 UNITS

Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out, AUTO 181T Engine Performance I Ignition and Fuel Systems Assessment Test Out, AUTO 183T Engine Performance II Intake, Exhaust and Emission Systems Assessment Test Out and AUTO 284T Inspector Level I Emissions Control License Training Assessment Test Out

1.5 hours laboratory

This assessment course includes summative and criterion tests for students to prove knowledge, skills, and abilities to perform emission system inspections in the department laboratory, or by using distance education technologies such as augmented reality or virtual reality. The tests include recorded and live student demonstrations used for observation and assessment. This course allows students residing at a distance from training centers to complete certification requirements prior to performing inspections at a Smog Test Station. This course is the assessment of AUTO 285 Inspector Level II Emissions lecture, AUTO 285L Level II Inspector Emission Training Lab, and is complimented by Work Experience at a Smog Inspection Station. This course may be used to satisfy BAR citation requirements.

AUTO-286T
Bar Smog Check Repair Technician Update Training Assessment Test Out **0.5 UNITS**

Recommended Preparation: "C" grade or higher or "Pass" in AUTO 162T Electronics Diagnosis and Repair Assessment Test Out, AUTO 181T Engine Performance I Ignition and Fuel Systems Assessment Test Out, AUTO 182 Engine Performance II Intake, Exhaust, and Emission Systems Assessment Test Out and AUTO 284T Inspector Level I Emissions Control License Training Assessment Test Out
1.5 hours laboratory
This assessment course includes summative and criterion tests for students to prove knowledge skills and abilities to perform emission system diagnosis and repair in the department laboratory, and by using distance education technologies such as augmented reality or virtual reality. This assessment course fulfills BAR licensing update requirements needed every two years for professional development update training. This course allows a student residing distance from training centers to complete certification requirements to update skills, procedures and repairs required at a Smog Test and/or Repair Station. This course compliments industry and college program students by demonstrating the most current diagnosis and repair processes of new systems technologies.

Biological Sciences (BIO)

BIO-105
Marine Biology **4 UNITS**
3.0 hours lecture, 3.0 hours laboratory
This introductory college-level course uses marine organisms and their interrelations with their aquatic environment in order to develop an understanding of modern biological principles and processes that are basic to all forms of life. Emphasis is placed on marine organisms, their ecology, and their evolutionary adaptations to marine habitats of the ocean environment.Topics include the marine environment and its organisms: plankton, plants, invertebrates, fishes, birds, reptiles, and mammals. An exploration of human impacts to this environment provides students with historical and foundational knowledge towards ecological stewardship. This course is intended for all students interested in marine biology. (CSU) (AA/AS-5)

BIO-112
Contemporary Issues in Environmental Resources **3 UNITS**
3.0 hours lecture
Through the scientific study of basic concepts in ecology, students apply their knowledge and scientific reasoning to the study of contemporary problems dealing with renewable and nonrenewable resources. Environmental resource problems involving air, water, energy, human population growth, and plant and animal diversity are examined in context of their scientific, political, economic and social implications. Alternatives for resolving existing problems and preventing future ones will be explored. (CSU/UC) (AA/AS-5, Cal-GETC-5B)

BIO-122
The Secret Life of Plants **4 UNITS**
3.0 hours lecture, 3.0 hours laboratory
Examines the fundamentals of plant biology: how plants grow, develop and respond to environmental stimuli, photosynthesis, water relations and phloem transport, reproduction, and evolution. Emphasis is on structural and functional aspects of plants while focusing on seed producers. Covers contemporary topics in plant biology including the basics of genetic engineering and biotechnology, and revealing the impacts on agriculture, the environment and society. (CSU/UC) (AA/AS-5, Cal-GETC-5B,5C)

BIO-133
Ethnoecology **3 UNITS**
3.0 hours lecture
Ethnoecology is the study of the dynamic relationship between people, biota and their environment. Through the scientific study of the principles of ecology, students use their knowledge and scientific reasoning to assess the impacts of humans on Earth's natural systems. This course will focus on the ecological and cultural basis of indigenous land management; particular attention will be paid to the environmental stewardship of the Kumeyaay/Diegueño people of Southern California and Northern Baja California. Local field trips and restoration projects in Cuyamaca College's nature preserve will provide opportunities for working directly with natural habitats. Also listed as KUMY 133. Not open to students with credit in KUMY 133. (CSU/UC) (AA/AS-5, Cal-GETC-5B)

BIO-134
Ethnobotany **3 UNITS**
3.0 hours lecture
Ethnobotany is the scientific study of the relationships that exist between peoples and plants, from the perspective of their traditional medicinal, cultural and utilitarian uses. Focusing on the Kumeyaay/Diegueño people of southern California, students will utilize the principles of scientific inquiry and modern plant biology to classify native plants, identify their anatomical structures and phytochemical composition and to relate this information to how plants were woven into the culture of indigenous populations and how plants were used to sustain, heal and protect their people. The historical uses and modern applications of this knowledge will be evaluated. Local field trips will provide opportunities for identification and scientific study of the plants in their natural habitats. Also listed as KUMY 134. Not open to students with credit in KUMY 134. (CSU/UC) (AA/AS-5, Cal-GETC-5B)

BIO-135
Ethnobotany/Ethnoecology Lab **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in either BIO 133 or BIO 134 or KUMY 133 or KUMY 134 or concurrent enrollment
3.0 hours laboratory
Laboratory experiments to complement KUMY 133/BIO 133: Ethnoecology and KUMY 134/BIO 134: Ethnobotany. Basic concepts in cell biology, plant taxonomy/identification, plant anatomy, plant physiology, and ecology will be covered. Students will utilize the tools of scientific inquiry to examine the relationship between plants, people and the environment using hands-on experiences. The labs will feature lessons in plant morphology, plant ecology, phytochemistry, and traditional preparation and uses of plants. Particular attention will be paid to the plants and plant communities within the Kumeyaay/Diegueño ethnobotanical region of Southern California. Also listed as KUMY 135. Not open to students with credit in KUMY 135. (CSU/UC) (AA/AS-5, Cal-GETC-5C)

BIO-140
Human Anatomy **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BIOL C1000 (formerly BIO 120) or equivalent
2.0 hours lecture, 6.0 hours laboratory
Students will embark on a study of the systems of the human body. This is accomplished through a study of the organization of the body's systems from a microscopic level of organization to the gross anatomy level. The relationship between structure and function will be examined through the study of histological slides, photomicrographs, anatomical models and charts, and dissection of preserved specimens. (C-ID BIOL 110B) (CSU/UC) (AA/AS-5, Cal-GETC-5B,5C)

BIO-141
Human Physiology **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BIOL C1000 (formerly BIO 120) or equivalent
3.0 hours lecture
Study of the function and interrelationships of the nervous, endocrine, muscular, circulatory, respiratory, digestive, and reproductive systems of the human body. Relates these systems to the maintenance of homeostasis and the effects of exercise, behavior and disease on human physiology. (C-ID BIOL 120B (with BIO 141L)) (CSU/UC) (AA/AS-5, Cal-GETC-5B)

BIO-141L
Laboratory in Human Physiology **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BIOL C1000 (formerly BIO 120) or equivalent and BIO 141 or equivalent or concurrent enrollment
3.0 hours laboratory
Laboratory course designed to illustrate the physiological principles studied in BIO 141. Emphasis is on lab-based investigations of human physiological processes. (C-ID BIOL 120B (with BIO 141)) (CSU/UC) (AA/AS-5, Cal-GETC-5C)

BIO-152
Paramedical Microbiology **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BIOL C1000 or equivalent
Recommended Preparation: "C" grade or higher or "Pass" in CHEM 102 or equivalent
3.0 hours lecture, 6.0 hours laboratory
Introduction to the major groups of microorganisms and the diseases they cause. Emphasizes the concepts and techniques relevant to the student entering paramedical professions: identifying and handling bacteria, basic principles of immunology, medical microbiology and epidemiology. Principles of microbial physiology, genetics, growth and microbial control are discussed. This course satisfies the introductory microbiology requirement needed by students majoring in nursing and other paramedical fields leading to a B.S. or B.A. degree. (CSU/UC) (AA/AS-5, Cal-GETC-5B,5C)

BIO-230
Principles of Cellular, Molecular and Evolutionary Biology **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CHEM 141 or equivalent
Recommended Preparation: "C" grade or higher or "Pass" in ENGL C1000 or ESL 122 or equivalent
3.0 hours lecture, 3.0 hours laboratory
Survey of the general principles of cell, molecular and evolutionary biology at an advanced level. Emphasis is on the following topics: cellular structure and processes including energy metabolism, membrane transport and cell cycle/cell division; molecular genetics including recombinant DNA; Mendelian and non-Mendelian genetics; communication between cells; and the current models for cellular evolution. Laboratory exercises emphasize the application of these topics to biotechnology. This course along with BIO 240 is the recommended biology sequence for life science majors. It is suggested that students contact the anticipated transfer institution to ascertain specific transfer requirements for their major. Not open to students with credit in BIO 220, 221. (C-ID BIOL 135S (with BIO 240), 190) (CSU/UC) (AA/AS-5, Cal-GETC-5B,5C)

BIO-240
Principles of Ecology, Evolution and Organismal Biology **5 UNITS**
Prerequisite: Appropriate Placement or Intermediate Algebra
Recommended Preparation: "C" grade or higher or "Pass" in ENGL C1000 or equivalent
4.0 hours lecture, 3.0 hours laboratory
Study of the origin and nature of the different forms of life utilizing evolution as a unifying theme and presenting organismal diversity within a phylogenetic framework. The relationships of environment and fundamental ecological principles, trophic roles and lifestyles to form and function will be explored through examination of comparative structure and the physiology, nutrition, circulation, gas exchange, reproduction, and development of organisms found in the three domains of life. The laboratory component emphasizes the systematics and diversity of prokaryotes, protists, fungi, plants and animals, as well as activities investigating ecological and evolutionary processes using the methods of scientific inquiry. This course along with BIO 230 is the recommended biology sequence for life science majors. It is suggested that students contact the anticipated transfer institution to ascertain specific transfer requirements for their major. Not open to students with credit in BIO 210. (C-ID BIOL 135S (with BIO 230), 140) (CSU/UC) (AA/AS-5, Cal-GETC-5B,5C)

BIO-251
Human Dissection **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BIO 140 or equivalent and recommendation from the student's Human Anatomy instructor
3.0 hours laboratory
Supervised study of human anatomy through dissection of a human cadaver. Enhances knowledge gained from BIO 140 (Human Anatomy) by observing and relating those organ systems learned to an actual human cadaver. Students will identify surface landmarks and relate them to successively deeper structures, and will develop and refine dissecting skills used on human cadavers. Instruction of human anatomy at this level is intended to assist students pursuing careers in nursing and other allied health professions. Preregistration counseling with instructor is required; class size is limited. (CSU/UC)

Common Course Numbering

BIO-120 Principles of Biology and BIO-130 General Biology I have been changed to BIOL-C1000 Introduction to Biology With Lab and BIOL-C1001 Introduction to Biology. See Biology (BIOL) Course Description page of the catalog.

Biology (BIOL)

BIOL-C1000
Introduction to Biology With Lab **4 UNITS**
3.0 hours lecture, 3.0 hours laboratory
This combined lecture and laboratory course provides the non-biology major with an introduction to living things and their environment. Students use experimentation and investigation to develop important critical thinking skills. Students learn about the process of science, the building blocks of life, the role and regulation of DNA, how populations change over time, the movement of energy within and between life forms, and how species interact with each other and their surroundings. By the end of the course, students will be able to apply an understanding of biological concepts to current issues and their impacts on society. This is the first course most nursing and kinesiology majors will take. Formerly BIO 120. Not open to students with credit in BIO 120. (CSU/UC) (AA/AS-5, Cal-GETC-5B)

BIOL-C1001
Introduction to Biology **3 UNITS**
3.0 hours lecture
This lecture course provides the non-biology major with an introduction to living things and their environment. Students develop important critical thinking skills as they learn about the process of science, the building blocks of life, the role and regulation of DNA, how populations change over time, the movement of energy within and between life forms, and how species interact with each other and their surroundings. By the end of the course, students will be able to apply an understanding of biological concepts to current issues and their impacts on society. This is a non-majors course and does not serve as a prerequisite for Pre-Allied Health students. Formerly BIO 130. Not open to students with credit in BIO 130. (CSU/UC) (AA/AS-5, Cal-GETC-5B)

Common Course Numbering

These courses are a part of the new Common Course Numbering system. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage (https://www.gcccd.edu/ccn/).

Business (BUS)

BUS-109
Elementary Accounting **3 UNITS**
3.0 hours lecture
Introduction to elementary accounting principles. Includes journals, ledgers, worksheets and financial statements for the single proprietorship. Designed for the clerical employee or for those who do not intend further study of accounting. No credit if taken after BUS 120. (CSU)

BUS-110
Introduction to Business **3 UNITS**
3.0 hours lecture
Provides a comprehensive view of today's dynamic American business and the global economy. Topics include: starting a small business, satisfying customers, managing operations, motivating employees and building self-managed teams, developing and implementing customer-oriented marketing plans, managing information, managing financial resources, and exploring ethical and social responsibilities of American business. (C-ID BUS 110) (CSU/UC)

BUS-111
Entrepreneurship: Starting and Developing a Business **3 UNITS**
3.0 hours lecture
Provides the prospective small business owner or entrepreneur with the most up-to-date skills necessary in the planning function of opening one's own business. Emphasis is on sources of financing, site locations, legal problems, marketing, including an overview of web and internet marketing organizational structure, and self-analysis to determine one's personal readiness for entrepreneurship. (CSU)

BUS-112
Craft Entrepreneur **2 UNITS**
2.0 hours lecture
This course provides an introductory view of today's craft industry entrepreneurs whose businesses specialize in goods that are handmade by artisans or those skilled in a particular trade. Small businesses engaged in the craft industry range from beverages and culinary products to handmade textiles and art, and everything in between. Specific topics will include an introduction to craft industry entrepreneurship, government assistance programs, project management, customer relationship management, social networking and marketing, and exploring ethical and social responsibilities. (CSU)

BUS-113
GIG Economy: The New Entrepreneurial Path **2 UNITS**
2.0 hours lecture
The course provides information and solutions for starting and working in the "GIG Economy" - mixing together short-term jobs, contract work, and freelance assignments. The class will assist students in other disciplines where gigging is common, such as music, ornamental horticulture, automotive, and graphic design, as well as, more traditional field of study such as business. The class will touch on freelancing, entrepreneurship, business and legal aspects, and tech developments, with emphasis on employment and entrepreneurial opportunities that exist in the industry. (CSU)

BUS-115
Human Relations in Business **3 UNITS**
3.0 hours lecture
This course explores the influence of individual differences, interpersonal dynamics and culture on human relations as it pertains to the model of business management. To develop future individual and organizational success, students will place a focus on diversity, globalization, skills of emotional intelligence, ethics, conflict resolution, cultural competency, active listening, and empathetic business practices. (CSU)

BUS-120
Financial Accounting **4 UNITS**
4.0 hours lecture
Introduces the accounting function and how it is used within our economic society. Accounting is viewed as an information-generating system that communicates financial data to support end users in their economic decision-making. Topics include 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. Issues related to asset, liability and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics will be covered. Designed for students who have an understanding of computer applications in word processing and spreadsheets, basic math skills, and the ability to write in a business-like manner. (C-ID ACCT 110) (CSU/UC)

BUS-121
Managerial Accounting **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BUS 120 or equivalent
4.0 hours lecture
Introduces the concepts, methods, and procedures for the development and use of accounting information to support and assist management in their internal cost accounting processes and financial decision making. Areas examined are: cost terms and concepts, cost behavior, cost structure, product costing in a manufacturing environment (including activity based costing), cost-volume-profit analysis, budgeting, standard costing, differential analysis, capital budgeting, variable and absorption costing, and responsibility accounting. (C-ID ACCT 120) (CSU/UC)

BUS-122
Intermediate Accounting **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BUS 120 or equivalent
4.0 hours lecture
In-depth study of accounting theories and principles underlying financial statements and the determination of net income. Survey of basic accounting principles. Study of corporate balance sheet items and the analytical processes of statement preparation which include funds-flow and cash-flow reporting. (CSU)

BUS-124
Auditing **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BUS 120 or equivalent
3.0 hours lecture
Study of the role of the auditor in the American economy including the general principles and concepts of auditing duties, ethics, liability and responsibilities of the auditor, and procedures for verification of financial statements including EDP statements. (CSU)

BUS-125
Business Law: Legal Environment of Business **3 UNITS**
3.0 hours lecture
Legal environment of business, sources of law, constitutional bases of regulation, social and ethical influences, corporate responsibility, judicial and administrative systems, contracts, torts, agency, business organizations, bankruptcy, regulation of property and protection of intellectual property interests, consumer protection, antitrust law and e-commerce. (C-ID BUS 120/125) (CSU/UC)

BUS-128
Business Communication **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGL C1000 or ESL 122 or equivalent
3.0 hours lecture
Development of the ability to analyze, organize, and compose various types of written and oral business communications with an emphasis on writing clear, concise and persuasive letters, memos, reports, emails, and social media messages. (C-ID BUS 115) (CSU)

BUS-129
Payroll Accounting and Business Taxes **2 UNITS**
2.0 hours lecture
In-depth study of payroll accounting. Covers calculations of gross to net pay, federal and state withholdings and deductions, recording of payroll transactions into the accounting records, and filing of federal and state payroll tax forms. Includes a consideration of factors which determine employee versus independent contractor status, and business taxes such as sales and property taxes and their filing requirements. (CSU)

BUS-150
Individual Income Tax Accounting **3 UNITS**
3.0 hours lecture
Introduction to federal taxation and tax preparation as applied to the individual taxpayer. Overview of the income tax environment. Topics include filing status, personal and dependency exemption, itemized and standard deductions, and solving specific problems related to filing Federal Form 1040. (CSU)

BUS-155
Human Resources Management **3 UNITS**
3.0 hours lecture
Introduction to the management of human resources and an understanding of the impact and accountability of human resource activities to the organization. Covers global human resource strategies; social and organizational realities; legal implications affecting people at work; union/non-union practices; employee compensation and benefits; employee rights; safety issues. (CSU)

BUS-156
Principles of Management **3 UNITS**
3.0 hours lecture
Planning, organizing, directing and controlling for management. Interaction of the functions including setting objectives, MBO, decision-making tools, alternative organization structures, leadership, motivation, communication, group dynamics, management of stress and change, time management, and women in management. Survey of the quantitative tools available to the manager. (CSU)

BUS-161
Business Internship **1-3 UNITS**
A work experience course to enable students in various specialty areas of business to gain practical experience and to apply knowledge gained in their business courses. This course is available to any Accounting, Business, Entrepreneurship, or Management major. Students will meet at least twice during the semester to compare field experiences and submit paperwork. It is recommended that students have completed at least 12 units of Business courses prior to registering for this class. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. 54 hours paid or unpaid work experience per unit, 1-3 units. (CSU)

BUS-162
Analysis of Financial Statements **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BUS 120 or equivalent
3.0 hours lecture
This course covers the characteristics and analysis of financial statements. Students will learn how to apply ratios to financial statements and interpret their outcomes in order to draw various inferences and/or conclusions from their results. (CSU)

BUS-176
Computerized Accounting Applications **2 UNITS**
2.0 hours lecture
An introductory course of computerized accounting functions utilizing an integrated general ledger software package. Especially beneficial to students, teachers and professionals who are using, or plan to use, computerized accounting packages to create a chart of accounts, record customer and vendor transactions, process payroll, and print reports. (CSU)

BUS-195
Principles of Money Management for Success **3 UNITS**
3.0 hours lecture
Explores the theories and techniques of managing personal income by setting life planning goals that will culminate in the development of a personal plan for students to manage their finances throughout the lifespan. Within the broad backdrop of business and economics in the United States, topics will include lifelong financial planning, budgeting, managing checking and savings accounts, building and maintaining good credit, retirement and estate planning, insurance, home ownership, and creating an investment portfolio. (CSU/UC) (AA/AS-7A)

Business Office Technology (BOT)

BOT-100
Basic Keyboarding **1 UNITS**
3.0 hours laboratory
Beginning keyboarding techniques for students who wish to use keyboarding skills for inputting information on computers. This course is taught on computers using appropriate software. Emphasis on the development of speed and accuracy by use of touch keyboarding methods, development of touch skills on the 10-key pad, understanding of basic vocabulary and concepts used in keyboarding operations for inputting and retrieving information, and composition at the keyboard. For students with physical disabilities that may impair proficiency, emphasis will be on quality of output instead of speed, and on the use of alternative input devices. (CSU)

BOT-101A
Keyboarding/Document Processing I **1.5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BOT 100 or equivalent
1.5 hours lecture
Focuses on learning or reviewing the alphabetic and numeric keyboard including the 10-key pad for numeric data entry. Students will learn basic features of Microsoft Word to produce simple memos, letters and reports. Keyboarding software will be used to build speed and accuracy. Students wishing to progress to BOT 102AB must complete BOT 101B. (CSU)

BOT-101B
Keyboarding/Document Processing II **1.5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BOT 101A or equivalent
1.5 hours lecture
Students will use Microsoft Word to produce correctly formatted and accurate business documents including letters, reports and tables. Keyboarding software is used to build speed and accuracy. (CSU)

BOT-102A
Intermediate Keyboarding/Document Processing I **1.5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BOT 101B or equivalent
1.5 hours lecture
Students will review and create business documents to apply formatting skills taught in BOT 101 or 101AB and are then introduced to new formatting and report styles options including agendas, formal reports and multipage tables. This course begins with intermediate Microsoft Word functions; entering students should be proficient in using basic Word features and should key a minimum of 30 net words per minute on a 5-minute timed writing. (CSU)

BOT-102B
Intermediate Keyboarding/Document Processing II **1.5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BOT 102A or equivalent
1.5 hours lecture
Students continue to create business documents, applying new formatting skills including using templates, designing letterheads and office forms, and learning specialized applications such as medical and legal forms. This course begins with intermediate Microsoft Word functions; entering students should be proficient in using basic Word features and should key a minimum of 35 net words per minute on a 5-minute timed writing. (CSU)

BOT-103A
Building Keyboarding Skill I **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 100 or equivalent
1.5 hours laboratory
Designed for students who have completed a keyboarding course but wish to work further on developing speed and accuracy. Entering students should know the alphabetic keyboard by touch and key at a minimum rate of 20 net words per minute on a 5-minute timed writing. (CSU)

BOT-103B
Building Keyboarding Skill II **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 103A or equivalent
1.5 hours laboratory
Continuation in building keyboarding speed and accuracy. Entering students should be keying by touch at a minimum rate of 25 net words per minute on a 5-minute timed writing. Those keying at a lower rate should enroll in BOT 103A. (CSU)

BOT-103C
Building Keyboarding Skill III **0.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 103B or equivalent
1.5 hours laboratory
Continuation in building keyboarding speed and accuracy. Entering students should be keying by touch at a minimum rate of 30 net words per minute on a 5-minute timed writing. Those keying at a lower rate should enroll in BOT 103B. (CSU)

BOT-104
Filing and Records Management **1 UNITS**
0.5 hours lecture, 1.5 hours laboratory
Instruction in the Association of Records Managers and Administrators (ARMA) filing rules and techniques which are widely used in business to create and maintain files. Covers alphabetic, numeric, geographic and subject filing rules; and records management including rules for retention, transfer and disposition of records. Students will use a software package to learn basic filing rules. (CSU)

BOT-106
Effective Job Search **1.5 UNITS**
1.0 hours lecture, 1.5 hours laboratory
Provides comprehensive and valuable skills that are needed to successfully secure employment, specializing in the office technology industry. Designed to examine the continuous process of career/life planning through effective, well-planned and efficiently organized job search procedures, including the use of multiple social media platforms. (CSU)

BOT-107
Office Systems and Procedures **2 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 101AB, 119 or equivalent or concurrent enrollment
2.0 hours lecture
Content includes office ethics and professionalism; prioritizing and productivity; human relations; working in teams; customer service skills; telephone skills; scheduling appointments; using email, use of applications and devices to transmit documents; handling office mail; and using the Internet for common office functions such as travel reservations and ordering supplies. (CSU)

BOT-114
Essential Word **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 100, 119 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Designed for students who want to learn the most commonly used features of a popular word processing software package. Upon completion, students will be proficient in using text editing and formatting commands to produce typical business documents, and in using the mail merge feature to produce form letters, labels and envelopes. Those desiring more in-depth coverage of these and additional topics should consider enrolling in BOT 120, 121, 122. Not open to students with credit in BOT 121, 122. (CSU)

BOT-115
Essential Excel **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 100, 119 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Designed for students who want to become proficient in the most commonly used features of Microsoft Excel. Basic spreadsheet concepts and terms will be introduced. Students will learn how to create, format and revise spreadsheets, charts, basic formulas, and templates. The use of simple macros will be introduced. Those desiring more in-depth coverage of these and additional topics should consider enrolling in BOT 123, 124, 125. Not open to students with credit in BOT 124, 125. (CSU)

BOT-116
Essential Access **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 100, 119 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Designed for students who want to become proficient in the most commonly used features of Microsoft Access. Basic database concepts and terms will be introduced. Students will learn how to create, format, edit and revise simple databases, sort and filter records, use queries, and create forms, reports and labels. Those desiring more in-depth coverage of these and additional topics should consider enrolling in CIS 140 or BOT 126, 127, 128. Not open to students with credit in BOT 127, 128. (CSU)

BOT-117
Essential PowerPoint **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 100, 119 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Designed for students who want to become proficient in the most commonly used features of Microsoft PowerPoint. Basic concepts and terms will be introduced. Students will learn how to create, format and revise PowerPoint presentations, including animation effects. Those desiring more in-depth coverage of these and additional topics should consider enrolling in BOT 129, 130. Not open to students with credit in BOT 130. (CSU)

BOT-118
Integrated Office Projects **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" 114, 115, 116, 117 or equivalent
3.0 hours laboratory
Capstone course for BOT majors who have completed prerequisite courses in all applications of the Microsoft Office suite (Word, Excel, Access, PowerPoint). Students will apply their skills and use cloud computing technologies such as Microsoft OneDrive, Microsoft OneNote, and Google Drive to complete projects that integrate these applications. (CSU)

BOT-119
Windows for the Information Worker **2 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 100 or equivalent or concurrent enrollment
2.0 hours lecture
This course is designed for students who wish to learn the latest generation of Windows. Students will learn to use the Windows operating system efficiently to customize desktop settings, control desktop applications and online apps, create an online account to access email and the cloud, conduct sophisticated online searches, understand and avoid online threats, and manage drives, files and folders. In addition, students will learn the latest in the "universal" application. (CSU)

BOT-120
Comprehensive Word, Level I **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 101AB, 119 or equivalent
0.5 hours lecture, 1.5 hours laboratory
First in a three-level course sequence providing thorough coverage of most features of Microsoft Word. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. Those desiring less comprehensive coverage of Word should consider enrolling in BOT 114. (CSU)

BOT-121
Comprehensive Word, Level II **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 120 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Second in a three-level course sequence providing thorough coverage of most features of Microsoft Word. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. (CSU)

BOT-122
Comprehensive Word, Level III **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BOT 121 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Third in a three-level course sequence providing thorough coverage of most features of Microsoft Word. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. (CSU)

BOT-123
Comprehensive Excel, Level I **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 100, 119 or equivalent
0.5 hours lecture, 1.5 hours laboratory
First in a three-level course sequence providing thorough coverage of most features of Microsoft Excel. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. Those desiring less comprehensive coverage of Excel should consider enrolling in BOT 115. (CSU)

BOT-124
Comprehensive Excel, Level II **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 123 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Second in a three-level course sequence providing thorough coverage of most features of Microsoft Excel. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. (CSU)

BOT-125
Comprehensive Excel, Level III **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BOT 124 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Third in a three-level course sequence providing thorough coverage of most features of Microsoft Excel. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. (CSU)

BOT-126
Comprehensive Access, Level I **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 100, 116, 119 or equivalent
0.5 hours lecture, 1.5 hours laboratory
First in a three-level course sequence providing thorough coverage of most features of Microsoft Access. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. Those desiring less comprehensive coverage of Access should consider enrolling in BOT 116. (CSU)

BOT-127
Comprehensive Access, Level II **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 126 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Second in a three-level course sequence providing thorough coverage of most features of Microsoft Access. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. (CSU)

BOT-128
Comprehensive Access, Level III **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BOT 127 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Third in a three-level course sequence providing thorough coverage of most features of Microsoft Access. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. (CSU)

BOT-129
Comprehensive PowerPoint, Level I **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 101AB, 114, 120 or equivalent
0.5 hours lecture, 1.5 hours laboratory
First in a three-level course sequence providing thorough coverage of most features of Microsoft PowerPoint. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. Those desiring less comprehensive coverage of PowerPoint should consider enrolling in BOT 117. (CSU)

BOT-130
Comprehensive PowerPoint, Level II **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 129 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Second in a three-level course sequence providing thorough coverage of most features in Microsoft PowerPoint. Students who complete all three levels will be prepared to take the Microsoft Office Specialist (MOS) certification examination or similar examinations. (CSU)

BOT-132
Google Applications for Business **3 UNITS**
3.0 hours lecture
In this course, students learn how to use Google Apps, a collection of free Web-based productivity tools, in a business environment. Topics include Google Search, Gmail, Google Calendar, Google Docs, Google Sheets, Google Slides, and emerging trends in Google Apps. Students use the internet to access their files and the tools to manipulate and collaborate with them. (CSU)

BOT-133
Adobe Acrobat for the Workplace **1 UNITS**
Recommended Preparation: "C" or higher or "Pass" in BOT 119 or equivalent
1.0 hours lecture
This course involves the study of Adobe Acrobat to create, manage, edit, assemble, and search PDF documents. Students will learn to create Adobe Portable Document Format (PDF), the universal file format for portable documents that preserves all of the fonts, formatting, colors, and graphics of any source document. Additionally, Acrobat can be used to create fillable forms, initiate review processes and apply legal features. Students will learn how to create PDF files from almost any file or paper document, as well as review and comment on PDF files, edit their contents, combine multiple documents into a single PDF file, keep PDF files secure, sign them electronically using the Adobe Document Cloud, and work with interactive online forms. This course will equip students to use Adobe Acrobat successfully in all professional settings, including law offices. (CSU)

BOT-150
Using Microsoft Publisher **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 101AB or 121 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Introductory course in Microsoft Publisher for students who wish to acquire a basic understanding of concepts and terminology for the production and design of professional quality publications. Emphasizes graphics, word processing and page layout. (CSU)

BOT-151
Using Microsoft Outlook **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in BOT 100, 119, and either BOT 114 or 120 or equivalent
0.5 hours lecture, 1.5 hours laboratory
Designed to offer students proficiency in the use of Microsoft Outlook to create email messages, maintain personal calendars and schedules, plan work, maintain contact lists, and organize information. (CSU)

BOT-174
Computer Concepts and Applications **3 UNITS**
3.0 hours lecture
This course involves the study of computer concepts and computer skills needed to use computers effectively and efficiently to enhance personal and professional productivity. Computer concepts covered include a basic understanding of the components that comprise computer hardware, system software, social media, mobile computing, and the security and privacy issues related to technology. This course will guide students to achieve entry-level competence with the latest editions of Microsoft Windows, web browsers and the Microsoft Office productivity suite, including OneNote, Outlook, Word, Excel, PowerPoint, and Access. (CSU)

BOT-180
Basic Computer Skills for Arabic Learners **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in Arabic 120 or equivalent
1.0 hours lecture
Students will be provided with the basic information and skills needed to operate a computer efficiently to support Arabic classes with an emphasis on basic keyboarding techniques and typing in Arabic, editing and formatting text in Arabic, and creating, formatting, and editing PowerPoint presentations in Arabic. Includes an overview of file and folder management to store information, using computer input devices, searching the internet, and sending email with attachments. Also listed as ARBC 180. Not open to students with credit in ARBC 180. (CSU)

BOT-223
Office Work Experience **1 UNITS**
Prerequisite: Limited to BOT majors who have completed at least 12 units in the major
Recommended Preparation: Keyboarding and computer skills as well as training in a variety of office procedures as required by most worksites
Work experience in an office setting. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. 54 hours paid or unpaid work experience per semester, 1 unit. (CSU)

BOT-224
Office Work Experience **2 UNITS**
Prerequisite: Limited to BOT majors who have completed at least 12 units in the major
Recommended Preparation: Keyboarding and computer skills as well as training in a variety of office procedures as required by most worksites
Work experience in an office setting. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a maximum total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. A student taking this course for 2 units must work 108 hours paid or unpaid. 108 hours paid or unpaid work experience per semester, 2 units. (CSU)

BOT-225
Office Work Experience **3 UNITS**
Prerequisite: Limited to BOT majors who have completed at least 12 units in the major
Recommended Preparation: Keyboarding and computer skills as well as training in a variety of office procedures as required by most worksites
Work experience in an office setting. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a maximum total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. A student taking this course for 3 units must work 162 hours paid or unpaid. 162 hours paid or unpaid work experience per semester, 3 units. (CSU)

CADD Technology (CADD)

UC credit limit: all CADD courses, ENGR 119, ENGR 129, OH 200, OH 201 combined: maximum credit, one course.

CADD-115
Engineering Graphics **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Introduction to engineering drafting. Covers the fundamentals of drafting using both mechanical instruments and the computer as drafting tools. Students will learn the fundamentals of engineering graphics as a universal language of communication in all engineering fields. Includes organization and drawing layouts, text, dimensions, tolerances, scales, orthographic projections, and pictorial drawings to visualize, represent and document basic engineering problems. (CSU/UC)

CADD-119
Introduction to Computer Aided Drafting and Design **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" or concurrent enrollment in CADD 115 or ENGR 100 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Concepts, techniques and procedures of Computer-Aided Drafting and Design (CADD). Offers a hands-on activity-based approach to the use of AutoCAD as a drafting tool. Course content focuses on manufacturing drawings, but also includes Architectural and General drawings. Students will develop a comprehensive understanding of computer-aided drafting in 2D geometry as well as in 3D-modeling. Also listed as ENGR 119. Not open to students with credit in ENGR 119, CADD 120. (CSU/UC)

CADD-125
Solid Modeling Design **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" or concurrent enrollment in CADD 115 or ENGR 100 or equivalent
Recommended Preparation: Working knowledge of basic computer operations and file administration
2.0 hours lecture, 3.0 hours laboratory
This is advanced graphic communication course using solid modeling techniques. This course covers feature based solid part construction including extrudes, cuts and revolves, loft and sweep. This also covers assembly construction and constraining in an engineering design environment. Students learn how to produce technical/engineering drawing including proper layout of component drawing views, sectioning, detailing and auxiliary views. Threads and fasteners are also included in this course. Dimensioning and tolerancing will be taught in accordance with ANSI standard. Introduction to 3D printing technology (aka Additive Manufacturing) is part of this course. SolidWorks software is used throughout the course. Also listed as ENGR 125. Not open to students with credit in ENGR 125. (CSU/UC)

CADD-127
Survey Drafting Technology **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CADD 119 or ENGR 119 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Professional Civil Engineering/Surveyor's office method drafting course that applies the basic skills and techniques acquired in CIVIL 3D. Land surveying, land development procedures, legal descriptions, topographical analysis, earthworks, geographic control and subdivision processes will be covered. Also listed as SURV 127. Not open to students with credit in SURV 127. (CSU/UC)

CADD-128
Geometric Dimensioning and Tolerancing (GDT) **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CADD 125/ENGR 125 or equivalent
3.0 hours lecture
Provides the complete fundamentals of Geometric Dimensioning and Tolerancing (GD & T) concepts as adopted by the American National Standard Institute (ANSI) standards: ASME (American Society for Mechanical Engineers)/ANSI Y14.5-2018. The importance of precision technique in conjunction with Computer-Aided Drafting and Design (CADD) is emphasized. The content of this course is considered to be one of the fundamental components to the engineering design and drafting profession. (CSU/UC)

CADD-129
Engineering Solid Modeling **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" or concurrent enrollment in CADD 115 or ENGR 100 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Advanced 3D computer-aided mechanical design and drafting. This parametric modeling course provides skills and knowledge of appropriate software, such as Fusion, and associated commands and features using extrudes, cuts, revolves, lofts and sweeps. Students will enhance their skills in sheet metal design as well as model assembly and assembly drawings including proper organization and layout of component drawing views, dimensioning and tolerancing, sectioning and detailing. 3D printing technology (additive manufacturing) is integrated to this course. Also listed as ENGR 129. Not open to students with credit in ENGR 129. (CSU/UC)

CADD-130
Advanced Computer-Aided Drafting and Design in 3D Modeling **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CADD 125 or ENGR 125 equivalent
Recommended Preparation: Working knowledge of basic computer operations and file administration
2.0 hours lecture, 3.0 hours laboratory
Advanced Computer-Aided Drafting and Design (CADD) topics such as aspects of designing with solid and surface modeling, design for manufacturing concepts, and 3D modeling at the advanced level. Exploring and experiencing Additive Manufacturing (aka Rapid Prototyping or FDM Technology). 3D Solid Modeling software such as "SolidWorks or Fusion" will be used as an instructional tool. Formerly CADD 132. Not open to students with credit in CADD 132. (CSU/UC)

CADD-131
Architectural Computer-Aided Drafting and Design **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CADD 119 (formerly CADD 120) or ENGR 119 or equivalent
2.0 hours lecture, 3.0 hours laboratory
This course is a hands-on study of computer-aided drafting and design (CADD) using three-dimensional (3D) parametric solid modeling programs, such as Revit, and associated commands, techniques, and processes required for the creation of contract documents for residential projects using professional standards. Application of architectural graphics, symbols, patterns, layouts, text, dimensions and scales to develop design drawings for small architecture, interior design, and space planning projects. (CSU/UC)

CADD-133
Advanced Architectural Computer-Aided Drafting and Design 3 UNITS
Prerequisite: "C" grade or higher or "Pass" in CADD 131 or equivalent
2.0 hours lecture, 3.0 hours laboratory
This course is an advanced, practical study of Revit and Building Information Modeling (BIM). Emphasis is placed on the complex aspects of the Revit program used in the development of two-dimensional, three-dimensional, and presentation documents. This course is intended for advanced CADD/architecture students and practicing professionals. (CSU/UC)

CADD-140
Introduction to Advanced CADD/ Manufacturing 2 UNITS
2.0 hours lecture
Concept of manufacturing, provide in depth the fundamental differences between manufacturing and advanced manufacturing processes. Role of artificial intelligence (AI) in manufacturing- robotics, automation, numerical control, quality control, etc. (CSU)

CADD-141
Introduction to Technology of Machine Tools 2 UNITS
2.0 hours lecture
This course introduces new manufacturing technologies and processes. Study of the development of tools throughout history. Covers the standard types of machine tools used in industry as well as the newly developed space-age machines and processes. (CSU)

CADD-150
Occupational Work Experience in CADD Technology/ Manufacturing 1-4 UNITS
Prerequisite: Preregistration counseling with the instructor is required. Must meet State guidelines for work experience
Recommended Preparation: Recommendation from Program Coordinator
This course is designed to provide a broad range of hands-on technical experience in CADD/CAM Technology/Manufacturing. It prepares students for full-time employment in an appropriate CADD industry setting. Students learn how to work safely in the work environment and apply skills attained in the classroom setting. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. 54 hours paid or unpaid work experience per unit, 1-4 units. (CSU)

CADD-200
Introduction to Computer-Aided Landscape Design 3 UNITS
2.0 hours lecture, 3.0 hours laboratory
Learn to create stunning landscape plans and detailed construction documents using the latest AutoCAD software. Design beautiful landscapes by selecting and placing hardscape materials and plants, and preparing conceptual plans with elevations, imagery, legends, and title blocks. Enhance visuals using color and plotting techniques to bring your designs to life. Develop professional documents that include detailed planting, irrigation, and lighting plans. Perfect for beginners and those looking to refine their skills. Enroll now and start transforming outdoor spaces with confidence! Also listed as OH 200. Not open to students with credit in OH 200. (CSU/UC)

CADD-201
Advanced Computer-Aided Landscape Design 3 UNITS
Prerequisite: "C" grade or higher or "Pass" in CADD/OH 200 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Use of computer-aided landscape design software for the application of graphics, symbols, patterns, layouts, text and scales for the development of design drawings, concept plans, construction documents and cost estimates for residential landscape projects. Also listed as OH 201. Not open to students with credit in OH 201. (CSU/UC)

Center for Water Studies (CWS)

CWS-100
Career Pathways in Water & Wastewater **3 UNITS**
3.0 hours lecture
This course introduces students to Cuyamaca's Center for Water Studies and the career pathways in the water and wastewater field in San Diego County and throughout California. The goal of the course is to develop in each student the skills they need to succeed at Cuyamaca and in their careers in water. This will be the first course in the Center for Water Studies' new Fundamentals of Water module -- a series of four introductory courses -- and students will be encouraged to begin their studies in water and wastewater with the 100 course. (CSU)

CWS-101
Fundamentals of Water & Wastewater **3 UNITS**
3.0 hours lecture
This course provides a broad overview of the water and wastewater fields and issues confronting the industry. Students will learn how source waters are obtained, treated, and distributed and how wastewater is collected, transported, and disposed of in the western states, California, and the local San Diego area. Contemporary issues facing the water and wastewater industry will be explored. (CSU)

CWS-102
Calculations in Water & Wastewater **3 UNITS**
Recommended Preparation: Competency in basic math skills
3.0 hours lecture
Study of the mathematical principles and methods involved in solving problems related to water and wastewater treatment, distribution, and collection systems, including volume, flow rate, velocity, pressure, force, unit conversions, dimensional analysis, chemical dose rates, dilutions, filter loading and backwash rates as related to water/wastewater technology. (CSU)

CWS-103
Water Resources Management **3 UNITS**
3.0 hours lecture
With the ever-increasing demands for safe and reliable supplies of potable water, combined with decreasing supplies and over commitments of our existing water resources, we are facing a serious water crisis in the western United States. This course explores the history and development of California water resources, legal and financial issues, water portfolio diversification, the role of groundwater recharge and management, wastewater reclamation and reuse, desalination, and energy conservation. (CSU)

CWS-105
Water Conservation **3 UNITS**
3.0 hours lecture
This course provides theoretical and practical training in applied water use efficiency and a foundation in the need for, and major components of, comprehensive water conservation programs. Topics include residential, commercial, and landscape conservation programs; water uses; water budgets; demand management; water audits; Best Management Practices; rate structures; and conservation program design and management. (CSU)

CWS-106
Electrical & Instrumentation Processes **3 UNITS**
3.0 hours lecture
An introductory course in basic electronic, electrical, and control system principles. Electrical safety precautions, component identification, schematic interpretation, motors, transformers, relays and test equipment will be studied. Automated process control devices and an overview of current technologies will be discussed. (CSU)

CWS-107
Safety in Water & Wastewater **3 UNITS**
3.0 hours lecture
This course provides a broad overview of Occupational Safety and Health issues in the water and wastewater industry. Students will learn the history of safety related laws and regulations for the General Construction Industry. Contemporary safety related issues facing the water and wastewater industry will be explored with an emphasis on the Occupational Safety and Health Administration of the California Department of Industrial Relations. (CSU)

CWS-110
Laboratory Analysis for Water & Wastewater **3 UNITS**
3.0 hours lecture
Examines basic fundamentals of laboratory analysis with an emphasis on applied chemical and microbiological procedures for water and wastewater plant operators. Includes procedures and techniques used in physical, chemical, bacteriological and biological examination of water/wastewater. Completion of CWS 110 and CWS 210 provides the foundation necessary to obtain a CWEA Grade 1 Laboratory Analyst Certificate. (CSU)

CWS-112
Water Treatment Plant Operations **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CWS 102 or equivalent
3.0 hours lecture
Study of the sources of water and the public health aspects of water supply; chemical, physical and bacteriological standards of water quality; types of water treatment plants; and water treatment procedures, operation, maintenance, storage and distribution. (CSU)

CWS-114
Wastewater Treatment Plant Operations **3 UNITS**
3.0 hours lecture
An introduction to the basic principles involved in the operation of conventional public wastewater treatment plants. Provides information on plant hydraulics, preliminary, primary and secondary treatment processes, disinfection, as well as environmental and safety regulation compliance. Supports preparation for the State Water Resources Control Board (SWRCB) Wastewater Grade I certification examination. (CSU)

CWS-115
Wastewater Reclamation and Reuse **3 UNITS**
3.0 hours lecture
This course covers the fundamentals of wastewater reclamation and reuse. Topics include the history of wastewater treatment and reclamation; total resource recovery including bio-solids/biogas harvesting; planning, design, and construction of reclamation plants; and reclaimed wastewater distribution. Problems regarding regulations, marketing, and public perception of using reclaimed wastewater will be discussed, along with public safety issues. (CSU)

CWS-116
Advanced Water Treatment I **3 UNITS**
Prerequisite: Any one of the following will satisfy the prerequisite for CWS 116: 1) Proof of a passing grade for the SWRCB T2 Water Treatment certification exam 2) Possession of a valid SWRCB T2 (or Higher) Water Treatment certification 3) Proof of a passing grade for the SWRCB Grade 2 Wastewater Treatment certification exam 4) Possession of a valid SWRCB Grade 2 (or higher) Wastewater Treatment certification
3.0 hours lecture
This course is a study of the basic principles involved in the theory, components, and operations of an Advanced Water Treatment Facility where reclaimed water is treated to augment potable water supplies and teach recycled water standards. Overview of treatment theory, design, operation, and monitoring, of components that complete an Advanced Water Treatment, multi barrier treatment facility. (CSU)

CWS-130
Water Distribution Systems **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CWS 102 or equivalent
3.0 hours lecture
Study of the operation and maintenance of a water supply and distribution system. Water sources, water quality, treatment methods, distribution operations, customer metering, pipeline installation and repair, valves and appurtenances, storage tanks, and maintenance topics will be discussed. Includes mathematical and hydraulic formulas and principles to determine volume, flow, pressure and hydrostatic force. Support the State Water Resources Control Board (SWRCB) Water Distribution Operator certification series. Prepares students for SWRCB Water Distribution Operator grade D1 and D2. (CSU)

CWS-132
Wastewater Collection Systems **3 UNITS**
3.0 hours lecture
Study of the components of wastewater collection systems. Overview of design installation, operation, monitoring, maintenance and repair of sewer pipelines, pump stations and related facilities. Preparation for California Water Environment Association (CWEA) Collection System Maintenance Grade 1 and Grade 2 certification exams. (CSU)

CWS-134
Pumps, Motors & Valves **3 UNITS**
3.0 hours lecture
Overview of the basic principles of mechanical equipment design, installation, operation, maintenance, repair, overhaul and replacement. Emphasis on understanding the value of preventative maintenance techniques such as equipment monitoring, lubrication analysis, machine alignment and scheduled overhaul. Preparation for California Water Environment Association (CWEA) Mechanical Technologist Grade 1 and Grade 2 certification exams. (CSU)

CWS-204
Applied Hydraulics **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CWS 102 or equivalent
3.0 hours lecture
Study of the hydraulic principles involved in the operation of water and wastewater distribution and collection systems. The behavior of water in closed-conduit pressure systems and open channel delivery systems, and the types of facilities and infrastructure utilized in water and wastewater service and their operational characteristics will be explored. Students will gain advanced knowledge and understanding of complex hydraulic relationships that will facilitate troubleshooting issues and problems encountered in water and wastewater systems. (CSU)

CWS-206
Advanced Electrical & Instrumentation Processes **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CWS 106 or equivalent
3.0 hours lecture
This course will be an advanced course in instrumentation, controls and SCADA industrial control systems. The focus will be on how these systems are used in the water and wastewater field. This course will cover PLC operations, usage and troubleshooting, how SCADA industrial control systems collect and store data, how the SCADA data historian works and is used by a water and wastewater utility. Finally, the course will look at intelligent equipment, communication standards and the underlying communication network. (CSU)

CWS-207
Practical Skills in Water & Wastewater Systems **2 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CWS 107 or equivalent
1.5 hours lecture, 1.5 hours laboratory
This course provides practical hands-on experience with the equipment and materials commonly used in the water and wastewater industry. Students will become familiar with and learn the specific uses of each piece of equipment commonly utilized in water distribution and wastewater collection systems. Students will have the opportunity to participate in hands-on learning activities and lessons related to the installation and maintenance of equipment and tools used in the water and wastewater industry. This course will utilize the Field Operation Skills Yard (FOSY) to provide a realistic learning environment for the students. (CSU)

CWS-210
Advanced Laboratory Analysis for Water & Wastewater **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CWS 110 or equivalent
3.0 hours lecture
Examines the fundamentals of laboratory analysis with an emphasis on applied chemical and microbiological procedures for water and wastewater plant operators. Includes procedures and techniques used in physical, chemical, bacteriological and biological examination of water/wastewater. Covers State Department of Public Health and Federal EPA, Clean Water and Safe Drinking Water Act regulations related to the operation of a water or wastewater laboratory. Completion of CWS 110 and CWS 210 provides the foundation knowledge and skills necessary to test for the California Water Environment Association (CWEA) Grade 1 Laboratory Analyst Certificate. (CSU)

CWS-212
Advanced Water Treatment Plant Operations **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CWS 112 or equivalent
3.0 hours lecture
The study of water quality control and treatment. Aspects of public health as it relates to the water supply will be highlighted. Sources of contamination and methods of control will be emphasized as well as maintenance of water treatment facilities, safety, cost, and environmental factors. (CSU)

CWS-214
Advanced Wastewater Treatment Plant Operations **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CWS 114 or equivalent
3.0 hours lecture
This course examines how modern wastewater treatment plants are operated to maximize efficiency and reliability in processing municipal wastewater. Emphasis on wastewater treatment plant facilities, equipment, preventative maintenance procedures, plant process monitoring & control, and safety & regulatory compliance. Supports preparation for the California State Water Resources Control Board (SWRCB) Wastewater Treatment Operator Grade II certification examination. (CSU)

CWS-216
Advanced Water Treatment II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CWS 116 or equivalent
3.0 hours lecture
This course is an advanced study of the principals involved in the theory, components, and operations of an Advanced Water Treatment Facility where reclaimed water is treated to augment potable water supplies and teach recycled water standards. Overview of treatment theory, design, operation, and monitoring, of components that complete an Advanced Water Treatment, multi barrier treatment facility. (CSU)

CWS-230
Advanced Water Distribution Systems **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CWS 130 or equivalent
3.0 hours lecture
The second of an integrated sequence of courses covering water distribution systems. Students will gain a more comprehensive understanding of the operation and maintenance of a water supply and distribution system including advanced calculations, management, safety, and emergency response issues. Contemporary issues facing the water and wastewater industry will be explored in depth. Expands on topics covered in the introductory course, CWS 130. Supports the State Water Resources Control Board (SWRBC) Water Distribution Operator certification series. Prepares students for SWRCB Water Distribution Operator certification examinations for grades D4 and D5. (CSU)

CWS-232
Advanced Wastewater Collection Systems **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CWS 132 or equivalent
3.0 hours lecture
Provides an in-depth understanding of the operation and maintenance of wastewater collection systems. Includes the design, operation, monitoring, maintenance and repair of collection systems and pump stations; equipment maintenance; safety and survival systems; and administration and organizational principles. (CSU)

CWS-268
Membrane Plant Operation **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CWS 112 or 114 or equivalent
3.0 hours lecture
Study of basic membrane technology and the application of this technology to water and wastewater treatment. This course explores the operation and maintenance of membrane components within a water and wastewater treatment system, as well as pre and post treatment considerations. (CSU)

CWS-270
Public Works Supervision **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CWS 101 or equivalent
3.0 hours lecture
Introduction to the principles and practices of modern supervision and management with an emphasis on contemporary issues facing supervisors and managers in the water utilities industry. (CSU)

CWS-280
Backflow Tester Training **2 UNITS**
1.5 hours lecture, 1.5 hours laboratory
Preparation for the American Water Works Association (AWWA) and the American Backflow Prevention Association (ABPA) certification for Backflow Prevention Assembly Tester Certification. Includes backflow device installation and testing procedures required for the certification testing. (CSU)

CWS-282
Cross-Connection Control Specialist **3 UNITS**
3.0 hours lecture
Study of the administrative and technical procedures required for a cross-connection control program, including system inspections, hazard evaluation, identification of cross-connection problems and backflow prevention devices, shut-down tests, and reclaimed water systems. Preparation for American Water Works Association (AWWA) Cross-Connection Specialist certification exam. (CSU)

CWS-284
Cross-Connection Control Specialist- Recycled Water **3 UNITS**
3.0 hours lecture
Study of the administrative and technical procedures concerning the production, use and distribution of recycled water including backflow protection, legal, administrative and permitting issues, the treatment process, health and safety aspects, and the cross-connection control (shut down) test as conducted in San Diego County. Various aspects of cross-connection control recycled water shut down testing will be demonstrated. Supports preparation for the American Water Works Association (AWWA) Cross-Connection Specialist certification exam. (CSU)

CWS-290
Cooperative Work Experience **1-4 UNITS**
Recommended Preparation: Successful completion of at least three Center for Water Studies courses prior to enrolling in Cooperative Work Experience is highly recommended
Practical application of principles and procedures learned in the classroom to the various phases of water and wastewater treatment, distribution or collection. Work experience will be paid or non-paid at appropriate curriculum-related work sites. Two on-campus sessions will be scheduled. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of 12 units. 54 hours paid or unpaid work experience per unit, 1-4 units.

Chemistry (CHEM)

CHEM-102
Introduction to General, Organic and Biological Chemistry **5 UNITS**
Prerequisite: Appropriate mathematics placement
4.0 hours lecture, 3.0 hours laboratory
A one-semester course covering the basic principles of general, organic and biochemistry as needed to understand the biochemistry, physiology and pharmacology of the human body. Intended for students planning to transfer to a California State University nursing program. Students with a grade of "C" or better in CHEM 115 or 116 (both offered at Grossmont College) are not eligible for this class. (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

CHEM-120
Preparation for General Chemistry **4 UNITS**
Prerequisite: Appropriate placement or Intermediate Algebra
3.0 hours lecture, 3.0 hours laboratory
Elementary principles of chemistry approached from a problem-solving perspective necessary to succeed in CHEM 141. Intensive study in the areas of problem solving, stoichiometry, chemical nomenclature, basic atomic theory and bonding, solutions, acid-base chemistry, redox reactions and gas laws. The laboratory will be an introduction to quantitative techniques, descriptive chemistry, gas laws, error analysis, and data treatment. (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

CHEM-141
General Chemistry I **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CHEM 120 or equivalent; OR the CHEM 141 assessment AND Intermediate Algebra or appropriate mathematics placement
3.0 hours lecture, 6.0 hours laboratory
Basic principles and concepts of chemistry with an emphasis in the areas of stoichiometry, thermochemistry, atomic structure, chemical bonding and gas laws. The laboratory is an introduction to quantitative analysis and the principles of atomic and molecular structures. (C-ID CHEM 110, 120S (with CHEM 142)) (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

CHEM-142
General Chemistry II **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CHEM 141 or equivalent
3.0 hours lecture, 6.0 hours laboratory
Basic principles and calculations of chemistry with emphasis in the areas of chemical and acid-base equilibrium, thermodynamics, descriptive chemistry of the periodic table, intermolecular forces, properties of liquids, solids and solutions, kinetics, electrochemistry, coordination compounds. The laboratory is a continuation of CHEM 141 with the quantitative analysis of matter and also includes qualitative analysis. ((C-ID CHEM 120S (with CHEM 141)) (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

CHEM-231
Organic Chemistry I **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CHEM 142 or equivalent
3.0 hours lecture, 6.0 hours laboratory
First of a two semester organic chemistry sequence. Includes nomenclature, structure/function relationships, and reaction mechanisms. Lab reinforces chemical principles and teaches proper lab technique. Course intended for science/pre-med majors. (C-ID CHEM 150, CHEM 160S (with CHEM 232)) (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

CHEM-232
Organic Chemistry II **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CHEM 231 or equivalent
3.0 hours lecture, 6.0 hours laboratory
Second of a two-semester sequence. The topics covered will include: structure and reactivity of carboxylic acids and their derivatives, amines and other nitrogen functional groups, aromatic compounds, heterocyclic compounds, polyfunctional compounds, conjugation and aromaticity, and multistep organic synthesis. (C-ID CHEM 160S (with CHEM 231)) (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

Child Development (CD)

CD-106
Practicum: Beginning Observation and Experience **1 UNITS**
Prerequisite: CD 123 or 125 or previous completion of either course with a "C" grade or higher or "Pass"
3.0 hours laboratory
Laboratory experience at an approved placement site that includes observing and recording the behavior of infant through preschool children and working directly with preschool children. Designed to reinforce and augment an understanding of principles and techniques for observing, assessing, planning and working with young children through direct experience. (CSU)

CD-115
Changing American Family **3 UNITS**
3.0 hours lecture
Survey of the contemporary American family with an emphasis on changes in form, functions and expectations. The history of the family, both public and private, will be considered and examined in relation to the effects of class, ethnicity and social policy. The effects on the family of common life events experienced by individuals and family members will be covered including sexuality, mate selection, marriage, childbearing, the working family, divorce, domestic violence, and aging. The future of the family including implications for the individual and society will be discussed. (CSU/UC) (AA/AS-4, Cal-GETC-4)

CD-123
Principles and Practices of Programs and Curriculum for Young Children **3 UNITS**
3.0 hours lecture
This course examines the theoretical principles of developmentally appropriate practices applied to programs and environments, with an emphasis on the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative, and intellectual development for all children. Content includes the historical roots of early childhood programs; the evolution of the professional practices promoting advocacy, ethics and professional identity; and the legal requirements for programs in California including Title 22 and Title 5. (C-ID ECE 120) (CSU)

CD-124
Infant and Toddler Development **3 UNITS**
3.0 hours lecture
Study of infants and toddlers, ages 0-3, focusing on the development of the brain, social-emotional, cognitive, language, and motor domains including variations due to linguistic, cultural, socioeconomic, and special needs. Emphasis is on development as it relates to care in a group setting. Theories and current issues related to group care and developmentally appropriate methods of guidance and socialization are examined. Focuses on the importance of the cultural context as it relates to meeting individual needs and building positive relationships with both child and family. (CSU)

CD-126
Art for Child Development **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CDEV C1000 (formerly CD 125)
3.0 hours lecture
This course covers the importance and value of creative art activities for young children with a focus on the variety of art media, and evaluation and selection of materials and strategies for incorporating art into an inclusive classroom environment. Students will participate in a variety of creative art experiences for infants, toddlers, preschool, and primary age children, including children with special needs. Theories of artistic development and creative expression through self-discovery will also be integral components of this course. (CSU)

CD-127
Science and Mathematics for Child Development **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CD 125 or equivalent
3.0 hours lecture
Exploration of the importance and value of science and mathematics in programs for young children. Students will examine and apply theories, methods and materials to facilitate children's understanding and appreciation for the concepts of math and science with an emphasis on problem-solving skills and strategies. Includes California Preschool Foundations for Mathematics and Science and the construction and presentation of appropriate materials for young children, including children with special needs. (CSU)

CD-128
Music and Movement for Child Development **3 UNITS**
3.0 hours lecture
Exploration of the importance and meaning of music and movement for infants, toddlers, and preschool children, including children with special needs. Areas emphasized will be listening skills, singing, movement education, and creating instruments. (CSU)

CD-129
Language and Literature for Child Development **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CDEV C1000 (formerly CD 125) or equivalent
3.0 hours lecture
Designed to help teachers build language opportunities into every curriculum area, and to explore methods and activities that foster language and emerging literacy skills for young children, including children with special needs. The course focus will include first and second language acquisition, techniques of storytelling and puppetry, the evaluation of children's literature, and reference to the California Preschool Learning Foundations. (CSU)

CD-130
Curriculum: Design and Implementation **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CD 123, 125, 126, 127, 128, 129, 131 or equivalent
3.0 hours lecture
Students will examine a variety of approaches to curriculum development, the essential role of play, and the teacher's role in supporting development and learning. The course will emphasize a co-constructive process of observation, implementation, and documentation for designing environments that generate meaningful, relevant learning that is responsive to the child in the context of family and culture. An overview of content areas, including language and literacy, social and emotional learning, sensory learning, art and creativity, and math and science will be provided. (C-ID ECE 130) (CSU)

CD-131
Child, Family and Community **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CD 123, 125 or equivalent
3.0 hours lecture
This course examines the socialization process, including the role families, school, media, peers, and the community play in children's development. Students will learn strategies to support children and families in a diverse society, including how to develop and maintain effective teacher and family relationships. Community resources and agencies that strengthen families will be examined. This course is required by the California Department of Social Services for teachers and directors. (C-ID CDEV 110) (CSU/UC) (AA/AS-4, Cal-GETC-4)

CD-132
Observation and Assessment: Field Experience Seminar **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CD 106, 123, 125, 126, 127, 128, 129, 131 and 130 or 143 or equivalent
Corequisite: CD 133 or 170
3.0 hours lecture
Seminar for students participating in field experience as student teachers in early childhood education programs. Students will develop skills in observation, authentic assessment and portfolio development for children, and positive communication and guidance skills for working with children and families. These skills will be implemented in CD 133 or 170. Reexamines professional ethics, responsibilities, and expectations of the work force, and explores strategies for job search. (CSU)

CD-133
Practicum-Field Experience: Student Teaching **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CD 106, 123, CDEV C1000 (formerly CD 125), 126, 127, 128, 129, 130, and 131 or equivalent
Corequisite: CD 132
Under supervision at approved field placement sites, student teachers will design, implement, and evaluate curriculum experiences, apply previous coursework to make connections between theory and practice, demonstrate professional behavior, and build a comprehensive understanding of children in the group environment. Respectful workplace relationships among children and adults that serve as a foundation for co-construction of curriculum and positive guidance will be emphasized. Work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. 162 hours paid or unpaid work experience, 3 units. (CSU)

CD-134
Health, Safety and Nutrition of Young Children **3 UNITS**
3.0 hours lecture
Strategies for applying holistic health, safety and nutrition in early childhood settings. Designed for teachers, parents or others who desire current information on concepts of health, safety and nutrition as it applies to children from infancy through school age. Covers laws, practices, and curriculum regarding physical and mental health, safety, fitness and nutrition. An emphasis on program planning will include collaboration with families and healthcare providers leading to the development of good habits, attitudes and responses promoting healthy and safe lifestyles. (C-ID ECE 220) (CSU)

CD-136
Adult Supervision **3 UNITS**
Recommended Preparation: 12 units of Child Development as defined by Title 22 licensing regulations: 3 units in Child Growth and Development (CDEV C1000 (formerly CD 125)), 3 units in Child, Family and Community (CD 131), 6 units in Program Curriculum (CD 123 or 126 or 127 or 128 or 129 or 130)
3.0 hours lecture
This course provides an opportunity for students to develop skills in establishing and maintaining supportive working relationships with adults in early childhood settings. Students explore and practice strategies for positive communication strategies including team building, collaboration, and effective problem solving. (CSU)

CD-137
Administration of Child Development Programs I **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in 12 CD units as required by Title 22 licensing regulations: CDEV C1000 (formerly CD 125), 131, and 6 units in program curriculum (CD 123 and 126 or 127 or 128 or 129 or 130)
3.0 hours lecture
This course is designed for the beginning director of child care and preschool programs. It includes administrative tools, knowledge, and techniques needed to organize, open, and operate a child development facility. Topics include budget, management, regulatory laws, and development of school policies and procedures. This course meets the California Department of Social Services and California Department of Education requirement for child care and preschool program directors and supervisors. (CSU)

CD-138
Administration of Child Development Programs II **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CD 137 or equivalent
3.0 hours lecture
This course is designed for the experienced director of child care and preschool programs. The focus is on human relationships in the professional setting with an emphasis on political, fiscal, and working conditions and how they affect turnover and staff morale; support for families in the program, and managing personal growth and development. (CSU)

CD-141
Working with Children with Special Needs **3 UNITS**
3.0 hours lecture
This course focuses on strategies for working with young children with special needs, including physical, intellectual, emotional, behavioral, and sensory challenges. The emphasis will be on developmentally appropriate inclusive practices, activities, materials, and environments, and developing strong relationships with families and community resources. (CSU)

CD-143
Responsive Planning for Infant/Toddler Care **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CD 124 or 125 or equivalent
3.0 hours lecture
Examination of programs, philosophies and components of high quality group care for infants and toddlers. Students will develop planning skills for environments, experiences, and caregiving routines that are based on respectful relationships and needs of diverse children and families. Emphasis is on building relationships between the family, child and caregiver in the context of linguistic, cultural, socioeconomic, and individual family differences and special needs. (CSU)

CD-145
Child Abuse and Family Violence in Our Society **3 UNITS**
3.0 hours lecture
Students will examine child abuse and neglect, domestic violence, elder abuse, and community violence. Safety and self protection will be studied with an emphasis on how the classroom teacher, foster parents, and members of the general public can recognize, prevent, report, and intervene in cases of child abuse and domestic violence. (CSU/UC) (AA/AS-4,7A)

CD-153
Teaching in a Diverse Society **3 UNITS**
3.0 hours lecture
Analysis of the many contexts and variables related to an individual's socialization process and how these factors impact one's work with children and families. Using an anti-bias approach, the class will examine and discuss topics related to ethnicity, religion, race, sex, disability and lifestyles as they are represented in our schools and society at large. Includes self reflection as a tool for personal growth. Students will better understand their own attitudes regarding diversity and will apply this knowledge to their work with children and families. (C-ID ECE 230) (CSU)

CD-170
Practicum: Field Experience with Infants and Toddlers **2 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CD 106, 123, 124, 125, 126, 127, 128, 129, and 143 or equivalent
Corequisite: CD 132 or previous enrollment
Under supervision at an approved field placement site, students will participate in all classroom activities and will design and modify the environment, develop and supervise learning experiences, handle routines, and respond to individual and group needs of children under three years of age. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. 54 hours paid or unpaid work experience per unit, 2 units. (CSU)

CD-210
Working with Young Children with Challenging Behaviors **3 UNITS**
3.0 hours lecture
This course provides a practical foundation for working with children with challenging behaviors in early childhood programs. Key components are developmentally appropriate guidance and proactive management techniques, preventative and intervention strategies, and adaptations of environment and settings. The importance of a child's developmental age, family involvement, and community resources will be included. (CSU)

CD-212
Practicum in Early Childhood Education **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CD 123, 125, 130, and 131 or equivalent
2.0 hours lecture, 3.0 hours laboratory
In this course students will practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of ECE/CD faculty and other qualified early education professionals. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child-centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement, and evaluate experiences that promote positive development and learning for all young children. (C-ID ECE 210) (CSU)

CD-213
Observation and Assessment **3 UNITS**
3.0 hours lecture
This course focuses on the appropriate use of a variety of assessment and observation strategies to document child development and behavior. Child observations will be conducted and analyzed. The use of observation and assessment of children in planning, implementing, and evaluating early childhood curriculum and environments will be included. (C-ID ECE 200) (CSU)

Common Course Numbering

CD-125 Child Growth and Development has been changed to CDEV-C1000 Child Growth and Development . See Child Development (CDEV) Course Description page of the catalog.

Child Development (CDEV)

CDEV-C1000
Child Growth and Development **3 UNITS**
3.0 hours lecture
Students examine the progression of development in the physical, cognitive, social, and emotional domains and identify developmental milestones for children from conception through adolescence. Emphasis is on interactions between biological processes, environmental, and cultural factors. Students may engage in various methods of observing children's development to evaluate individual differences and analyze development characteristics at various stages according to developmental theories. Formerly CD 125. Not open to students with credit in CD 125. (C-ID CDEV 100) (CSU/UC) (AA/AS-4,7A, Cal-GETC-4)

Common Course Numbering

CDEV-C1000 Child Growth and Development is part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage (https://www.gcccd.edu/ccn/).

Communication (COMM)

COMM-C1000
Introduction to Public Speaking **3 UNITS**
3.0 hours lecture
In this course, students learn and apply foundational rhetorical theories and techniques of public speaking in a multicultural democratic society. Students discover, develop, and critically analyze ideas in public discourse through research, reasoning, organization, composition, delivery to a live audience and evaluation of various types of speeches, including informative and persuasive speeches. Special attention will be given to learning how to prepare, organize and deliver a speech to a diverse audience, while demonstrating rhetorical sensitivity to diversity, equity, inclusion, and accessibility. Additionally, students will employ effective verbal and nonverbal practices while delivering a speech and managing communication apprehension (speech anxiety). Furthermore, students will utilize presentation aids, enhance listening skills, and ethically obtain and present speech content. Formerly COMM 122. Not open to students with credit in COMM 122. (C-ID COMM 110) (CSU/UC) (AA/AS-1B, Cal-GETC-1C)

COMM-C1004
Interpersonal Communication **3 UNITS**
3.0 hours lecture
This course covers theory, research, and application of ethical one-to-one communication practices in various and diverse interpersonal relationships including in personal, professional, and social situations. This course will help you gain the knowledge and skills needed to develop, maintain, and strengthen your relationships by learning about such topics as identity, emotional intelligence, perception, listening, nonverbal behaviors, conflict, and culture which you can apply in your personal, professional, and social relationships. Formerly COMM 120. Not open to students with credit in COMM 120. (C-ID COMM 130) (CSU/UC) (AA/AS-1B)

COMM-110
Introduction to Mass Communication **3 UNITS**
3.0 hours lecture
Introduction to mass media practices and influences in the United States (and globally). Topics include current media practices, problems, issues and significant trends with special emphasis on the ways media and society influence and change each other. The history of mass media theories, ethics, roles and responsibilities, contributions of diverse groups, gender issues, and legal rights and restrictions will be explored. Mass media contexts will include news advertising, public relations, photojournalism, newspapers, radio, television, film, recording industry, book publishing, network/cable and online communication. (C-ID JOUR 100) (CSU/UC) (AA/AS-4, Cal-GETC-4)

COMM-123
Advanced Public Speaking **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in COMM C1000 or equivalent
3.0 hours lecture
Advanced training in the preparation and delivery of common types of public speaking. There is an emphasis on new theoretical approaches to the process of oral communication. (CSU/UC)

COMM-124
Intercultural Communication **3 UNITS**
3.0 hours lecture
The purpose of this course is to explore and learn about intercultural communication: the study of face-to-face communication between people from different cultural backgrounds, including those reflecting national or ethnic diversity. This course will utilize a culture-general approach, meaning that the focus will be on general principles of intercultural communication that are applicable across a broad spectrum of cultures and contexts. (C-ID COMM 150) (CSU/UC) (AA/AS-4, Cal-GETC-4)

COMM-130
Fundamentals of Human Communication **3 UNITS**
3.0 hours lecture
A survey of the theory, basic principles, and methods of human communication. The course emphasizes improving speaking and listening in public speaking, interpersonal and group contexts, while demonstrating sensitivity and responsiveness to diversity, equity, inclusion, belonging, and accessibility. (CSU) (AA/AS-1B)

COMM-137
Critical Thinking in Group Communication **3 UNITS**
3.0 hours lecture
This course is designed to assist students in the development of critical thinking and decision making skills in the small group communication context. There is an emphasis on the basic elements of critical thinking such as evidence, reasoning and language. Students will become familiar with leadership strategies, problem solving techniques, discussion plans, and conflict management as applicable in groups. (C-ID COMM 140) (CSU/UC) (AA/AS-1B)

COMM-145
Argumentation **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGL C1000 or ESL 122 or equivalent
3.0 hours lecture
Study of the construction and analysis of public argument. Covers the theory of argument, the processes and development of arguments, and the application of argument to decision making. Topics include: methods of critical inquiry and advocacy; identifying fallacies in reasoning and language; the process of inquiry-driven research; testing evidence and evidence sources; advancing a reasoned position; and defending and refuting arguments. Analysis, presentation, and evaluation of oral and written arguments are emphasized. Students will employ argumentation theory and critical reasoning to construct detailed written essays based on inquiry-driven research, methods of analysis, evidence use, and ethical advocacy. (C-ID COMM 120) (CSU/UC) (AA/AS-1B)

Common Course Numbering

COMM-C1000 Introduction to Public Speaking and COMM-C1004 Interpersonal Communication are a part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage.

Computer and Information Science (CIS)

CIS-101
Fundamentals of Information Technology **1.5 UNITS**
1.0 hours lecture, 1.5 hours laboratory
Designed for beginners, no previous computer experience is required. This class introduces students to the various careers that IT has to offer. Students will explore PC Hardware, Operating Systems, Networking, Web design, Programming, Security through highly interactive laboratory exercises: Build a personal web page, Build and secure a home or office network, Identify computer components assemble a PC and install an operating system, Program lights, motors, and devices. When completed, students will have the ability to make informed decisions regarding their educational pathway toward a career in Information Technology. (CSU)

CIS-110
Principles of Information Systems **4 UNITS**
3.0 hours lecture, 3.0 hours laboratory
An introductory course in information technology with an emphasis on business and business-related applications. Concepts include computer organization, data processing systems, decision support systems, systems analysis and design. The laboratory component consists of hands-on problem solving using software applications including spreadsheets and databases. (C-ID BUS 140/ITIS 120) (CSU/UC) (AA/AS-7A)

CIS-120
Computer Maintenance and A+ Certification **3 UNITS**
Recommended Preparation: Basic computer skills (basic knowledge of hardware, operating systems, applications software)
2.0 hours lecture, 3.0 hours laboratory
Preparation for the A+ Certification exam, an industry-sponsored certification exam that establishes a benchmark level of knowledge and competence expected of computer service technicians in entry-level positions. A+ Certification also serves as the foundation for computer service professionals who are pursuing other valuable industry certifications such as the Cisco Certified Networking Associate (CCNA), Network+, Security+ and Microsoft Certified Professional (MCP). Students will gain a comprehensive knowledge base in computer hardware, and Windows operating systems, networking basics, printers, industry soft skills and customer service. Hands-on labs using the latest computer components and operating systems provide an opportunity for students to enhance their skills in assembling, disassembling, servicing, troubleshooting, and upgrading advanced computer and networking systems. (CSU)

CIS-121
Network Cabling Systems **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
This course introduces students to the basic concepts of network cabling systems. It focuses on network cabling design, installation, testing, certification and troubleshooting. Students will develop knowledge and skills in installing and testing voice and data cable connectors and jacks, horizontal links and channels, pulling and terminating cables, cable system certification, telecommunications room design, and patch panel installation. The laboratory component allows students to verify concepts introduced in class and develop the knowledge and skills required to build, test, operate and maintain the physical aspects of voice, video and data networks. (CSU)

CIS-125
Network+ Certification **3 UNITS**
Recommended Preparation: Basic computer skills (basic knowledge of hardware, operating systems, applications software)
2.0 hours lecture, 3.0 hours laboratory
Practical course intended for those interested in learning computer networking with an emphasis on earning the Computing Technology Industry Association's certification Network+, a foundation-level, vendor-neutral international industry credential that validates the knowledge of networking professionals. Earning this certification demonstrates that a candidate can describe the features and functions of networking components, and possesses the knowledge and skills needed to install, configure and troubleshoot basic networking hardware, protocols and services. It also indicates technical ability in the areas of media and topologies, protocols and standards, network implementation, and network support. Throughout the course, theory will be demonstrated and practiced in laboratory exercises. Lectures, laboratories and practical assignments will emphasize skills needed to work effectively in the networking environment and to earn the Network+ certification. (C-ID ITIS 150) (CSU)

CIS-140
Databases **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CIS 110 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Beginning course in database software that provides a solid background in database applications and operation. Students will create, update and retrieve information using a computer and database software. Beneficial for those who wish to use the computer to file, organize, retrieve and create reports from data. (CSU)

CIS-162
Technical Diagramming Using Microsoft Visio **2 UNITS**
Recommended Preparation: Basic computer skills
1.0 hours lecture, 3.0 hours laboratory
Networking and telecommunications professionals must know how to create technical diagrams and drawings, and use computer tools to manage Information Technology (IT) projects. Using Microsoft Visio, students will learn how to create basic and advanced networking and telecommunications diagrams and drawings, building plans, project schedules, and flow charts. Students will also learn how to visualize and create presentations of complex technical and business information systems. Challenging case studies will provide real-world technical and business experiences. (CSU)

CIS-170
Internet of Things (IoT) - Connecting Things **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
From washing machines to sophisticated components of an airplane's jet engine, even organic items like crops and cows, nearly every object can now be connected to the Internet. The ability to connect things and capture useful data from these connections is transforming organizations in every industry and opening doors for new career specializations. This course is for people who love creating devices. From designing electronic circuits to writing code, the IoT (Internet of Things) provides the platform for various types of professionals. The goal of this course is to explore things and their connection to the IoT by conducting hands-on labs both individually and as a member of a team. Discover the basis of this exciting and emerging field using fun, hands-on activities to model securely connecting sensors to cloud services over IP networks and collecting data in an end-to-end IoT system. While an understanding of basic programming (such as PCAP. Programming Essentials in Python), networking and electronics knowledge is useful, it is not required. (CSU)

CIS-172
Internet of Things (IoT) Security **3 UNITS**
Prerequisite: Successful completion of CIS 170
2.0 hours lecture, 3.0 hours laboratory
The explosive growth of connected IoT devices enables the world's digitization, but also increases the exposure to security threats. You will use the latest technologies to perform vulnerability and risk assessments, then research and recommend risk mitigation strategies for common security threats in IoT systems. The world needs more skilled cybersecurity professionals. Adding IoT Security to your skillset differentiates you from other job candidates. Consider becoming an IoT Specialist in Network Security by combining this course with your CCENT/CCNA Routing & Switching and CCNA Security certifications. Or pair IoT Security with the CCNA Cybersecurity Operations certification and increase your employability with a deeper understanding of the anatomy of an attack and how to mitigate it. (CSU)

CIS-190
Windows Operating System **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 120 or 125 or equivalent or current CompTIA A+ or N+ certification
2.0 hours lecture, 3.0 hours laboratory
Comprehensive hands-on application, use and training on a Windows client computer operating system for both beginning and intermediate level students preparing for the current Microsoft Certified Technology Specialist certification exam. Instruction will include: operating system installation and configuration, graphical user interface and command-line commands, hardware installation and configuration, file system management, user and group management, security configuration, network configuration and management, troubleshooting, and disaster recovery. (CSU)

CIS-191
Linux Operating System **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 120 or 125 or equivalent or current CompTIA A+ or N+ certification
2.0 hours lecture, 3.0 hours laboratory
Comprehensive hands-on application, use and training on a Linux client computer operating system for both beginning and intermediate-level students. Instruction will include: operating system installation and configuration, graphical user interface and command-line commands, hardware installation and configuration, file system management, user and group management, security configuration, network configuration and management, troubleshooting and disaster recovery. Course maps to the Computer Technology Industry Association (CompTIA) Linux+ and Linux Professional Institute (LPI) Certification Level 1 certification exams. (CSU)

CIS-201
Cisco Academy - Introduction to Networking **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CIS 125 or equivalent
2.0 hours lecture, 3.0 hours laboratory
This is the first of four courses designed to provide knowledge, experience and skills in current and emerging networking technology. This course is also designed to help students prepare for the professional certification as a CISCO Certified Network Associate (CCNA). This course introduces you to fundamental networking concepts and technologies. In this course, you will learn both the practical and conceptual skills that build the foundation for understanding basic networking. Students will: examine human versus network communication and see the parallels between them; be introduced to the two major models used to plan and implement networks: OSI and TCP/IP; learn about network devices and network addressing schemes, and discover the types of media used to carry data across the network. This course maps to the current CISCO Certified Networking Associate curriculum version. (CSU)

CIS-202
Cisco Academy - Routing, Switching, and Wireless Essentials **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 201 or completion of CCNA1 Version 6 at another Cisco Networking Academy, or explicit instructor permission
2.0 hours lecture, 3.0 hours laboratory
This is the second of four courses designed to provide knowledge, experience and skills in current and emerging networking technology. This course is also designed to help students prepare for the professional certification as a CISCO Certified Network Associate (CCNA). Routing and Switching Essentials describes the architecture, components, and operations of routers and switches. Students learn how to configure basic router and switch functions necessary for planning and implementing small networks. By the end of this course, students will be able to configure routers and switches and troubleshoot common issues with the Routing Information Protocol (RIPv1, RIPv2, and RIPng), single-area Open Shortest Path First Protocol (OSPF), Dynamic Host Configuration Protocol (DHCP), Network Address Translation (NAT), Access Control lists (ACLs), Virtual Local Area Networks (VLANs), and inter-VLAN routing in both IPv4 and IPv6 networks. This course maps to the current CISCO Certified Networking Associate curriculum version. (C-ID ITIS 151) (CSU)

CIS-203
Cisco Academy - Enterprise Networking, Security, and Automation **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 202 or completion of CCNA2 Version 6 at another Cisco Networking Academy, or explicit instructor permission
2.0 hours lecture, 3.0 hours laboratory
This is the third of four courses designed to provide knowledge, experience and skills in current and emerging networking technology. This course is also designed to help students prepare for the professional certification as a CISCO Certified Network Associate (CCNA). Scaling Networks describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with Open Shortest Path First (OSPF) protocol, Enhanced Interior Gateway Routing Protocol (EIGRP), First Hop Redundancy Protocols (HSRP), EtherChannel, and Spanning-Tree Protocol (STP) in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network. This course maps to the current CISCO Certified Networking Associate curriculum version. (CSU)

CIS-209
Cisco CyberOps **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 202 or equivalent or successful completion of the current version of CCNA1, and 2 at another Cisco Networking Academy or possess a current CCNA or CCENT certification
2.0 hours lecture, 3.0 hours laboratory
Designed for students seeking career-oriented, entry-level security specialist skills. Provides the technical knowledge and skill experience needed to prepare for entry-level security specialist careers. The CCNA Security curriculum blends classroom hands-on experience using Cisco routers, switches, ASAs and an online e-learning solution to develop an in-depth understanding of network security principles and security tools such as: protocol sniffers/analyzers, TCP/IP and common desktop utilities; Cisco IOS-based network security, administrative access security and Intrusion Prevention System (IPS); Cisco ASA Firewalls; AAA; and VPNs. Preparation for the Implementing Cisco Network Security (IINS) certification exam (210-260 IINS), leading to the CCNA CyberOps certification. (CSU)

CIS-210
Cisco Networking Academy - Voice **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 203 or equivalent or Cisco Networking Academy CCNA1, 2, 3; or possess current CCNA certification
3.0 hours lecture, 3.0 hours laboratory
The CISCO Networking Academy-Voice course covers the topics aligned to the Introducing CISCO Voice and Unified Communications Administration (ICOMM v8.0) 640-461 professional certification exam. This course introduces students to the architecture, components, functionalities, and features related to CISCO Unified Communications. This is a lab-intensive course providing students with the hands-on experience necessary to perform tasks related to system monitoring, moves, additions and changes on CISCO Unified Communications Manager, CISCO Unified Communications Manager Express, CISCO Unity Connection, and CISCO Unified Presence. (CSU)

CIS-211
Web Development I **3 UNITS**
Recommended Preparation: Basic computer skills (ability to use the Internet, word process documents, manage electronic files)
2.0 hours lecture, 3.0 hours laboratory
This course is a hands-on overview of current web development. Emphasis will be placed on coding and debugging valid HTML and Cascading Style Sheets (CSS), but the course will also include design principles and introductory graphics to encourage attractive, usable design. Mobile development will be introduced. Student will use industry standard development environments to create websites. (CSU)

CIS-213
Web Development II **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CIS 211 or equivalent
2.0 hours lecture, 3.0 hours laboratory
This course builds on the skills introduced in Web Development I (CIS 211) with hands-on projects that reinforce and further develop HTML5 and CSS3 expertise. Mobile development is addressed in detail. Also covered are content management systems, Search Engine Optimization (SEO), usability, and use of hosted and local servers. (CSU)

CIS-215
JavaScript Web Programming **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CIS 211 or equivalent or one year verifiable HTML and CSS coding experience
2.0 hours lecture, 3.0 hours laboratory
JavaScript, the most popular web development language, works with HTML and CSS to add interactivity, special effects, and functionality to web pages. This introduction to JavaScript focuses on using JavaScript to develop practical front-end web components such as menus, slide shows, accordions, tabs, form validators, and date pickers. The foundation is set with JavaScript coding and syntax basics and quickly moves on to manipulating web page elements. Students then learn to work with JQuery and jQuery UI, free JavaScript libraries commonly used by web developers to simplify JavaScript programming. The course includes practical examples and hands-on assignments. (CSU)

CIS-219
PHP/MySQL Dynamic Web-based Applications **3 UNITS**
Recommended Preparation: Prior experience with HTML/CSS coding, programming, and database development. These skills can be acquired by completing CIS 211, CIS 140, and any Computer Science course.
2.0 hours lecture, 3.0 hours laboratory
PHP, a popular server-side web development language, is used to develop web applications that collect data from HTML forms and store them in databases like MySQL. Examples include online stores and content driven sites like WordPress and Wikipedia. This introduction to PHP and MySQL provides the knowledge and skills necessary to develop dynamic web-based applications that allow users to create, read, update, and delete database data via web browser forms. Students will build practical web applications such as shopping carts, address books, and more. (CSU)

CIS-220
E-Commerce and Web Presence **3 UNITS**
Recommended Preparation: Basic familiarity with the PC or Mac and Web browsing is strongly recommended. Basic Web site creation skills are also recommended.
3.0 hours lecture
This course covers the principles and technologies involved in creating a Web presence for a small or medium sized business (SMB). Students will create a starter e-business website. (CSU)

CIS-225
Web Development Capstone **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 211 or equivalent and completion of 15+ units with a "C" grade or higher or "Pass" from the following: CIS 140, 211, 213, 215, 219; GD 105, 126, 217
2.0 hours lecture, 3.0 hours laboratory
In this course, participants build professional quality websites, gaining the experience and work examples necessary to find employment in the field. The practical, hands-on work of the class will require participants to reinforce and synthesize learning from the Web Development degree core and explore topics too new or advanced for prior courses. Participants will be guided through project analysis, design, development, implementation and evaluation. (CSU)

CIS-261
NSSA Degree Capstone **2 UNITS**
Prerequisite: Completion of 30+ units with a "C" grade or higher or "Pass" from the following courses: CIS 120, 121, 125, 140, 190, 191, 201, 202, 203, 209, 210, 263, 290, 291, 293, 294, 295, CS 119, 119L or equivalent
1.0 hours lecture, 3.0 hours laboratory
This Networking, Security and System Administration (NSSA) course allows students to verify skills and knowledge obtained in previous computer, networking, security, and telecommunications classes. Students will design, build, test, operate and maintain end-to-end converging and unified information and communication networks during the capstone's "hands-on" lab. (CSU)

CIS-263
Fundamentals of Network Security **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CIS 125 or 201 or equivalent, and "C" grade or higher or "Pass" in 190 or 191 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Entry-level course in network security that addresses the various aspects of designing and implementing a secure network. Designed for students interested in understanding the field of network security and how it relates to other areas of Information Technology (IT). Covers materials included in the CompTIA (Computing Technology Industry Association) Security+ exam. (C-ID ITIS 160) (CSU)

CIS-264
Ethical Cybersecurity Hacking **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 263 or CIS 209
2.0 hours lecture, 3.0 hours laboratory
This course immerses IT Professionals in hands-on intensive environments, providing in-depth knowledge and experience with current essential security systems. Provides understanding of perimeter defenses and leads to scanning and attacking networks; no real networks are harmed. Students learn how intruders escalate privileges and the steps to be taken to secure a system. Also covers Intrusion Detection, Policy Creation, Social Engineering, DDoS Attacks, Buffer Overflows, and Virtual Creation. Focus includes legal and regulatory requirements, ethical issues, basic methodology and technical tools used for ethical hacking and penetration tests. Students establish a pre-test agreement with the enterprise, discover and exploit vulnerabilities, participate as a member of a pen test team and prepare a penetration test report. (CSU)

CIS-265
Computer Forensics Fundamentals **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 264 or equivalent
2.0 hours lecture, 3.0 hours laboratory
This course introduces the methods used to properly conduct a computer forensics investigation. Topics include ethics, computer forensics as a profession, the computer investigation process, operating systems boot processes and disk structures, data acquisition and analysis, technical writing, and a review of familiar computer forensics tools. The course prepares students for Computer Hacking Forensic Investigation certification (CHFI ECO 312-46). (CSU)

CIS-267
Directed Work Experience in CIS **1-4 UNITS**
Prerequisite: 12 units in CIS/CS courses related to field in which work experience is sought and current resume highlighting computer science or information system experience and course-related study
Work experience at a designated industry site in an information and communication technology (ICT) occupation category for students seeking job experience in the ICT industry. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of 12 units. 54 hours paid or unpaid work experience per unit, 1-4 units. (CSU)

CIS-270
Palo Alto Network Security I **3 UNITS**
Recommended Preparation: CCNA 1-4, CCNA Security, Security +
2.0 hours lecture, 3.0 hours laboratory
The Palo Alto Academy course feature hands-on lab training using Palo Alto Networks® next-generation firewalls. This course maps to certification exams that validate proficiency in managing Palo Alto Networks next-generation firewalls. Students learn the fundamentals of cybersecurity and identify the concepts required to recognize as well as mitigate attacks against enterprise networks and mission-critical infrastructure; general concepts involved in maintaining a secure network computing environment; students evaluate cybersecurity principles and demonstrate how to secure a network computing environment through the application of security controls. Students will learn the nature and scope of today's cybersecurity challenges, strategies for network defense and detailed information about next-generation cybersecurity, students will also deploy a variety of security methodologies as well as technologies and concepts used for implementing secure network environments. Students will gain a general understanding of how to install, configure and manage firewalls for the defense of enterprise network architecture. Students will also learn the theory and steps for setting up the security, networking, threat prevention, logging and reporting features of next-generation firewalls. This course is aligned with the U.S. National Initiative for Cybersecurity Education (NICE) framework. (CSU)

CIS-271
Palo Alto Networks - Certified Network Security Administrator (PCNSA) **3 UNITS**
Recommended Preparation: CIS 270
2.0 hours lecture, 3.0 hours laboratory
Cybersecurity has become an essential survival skill for the modern world. The ability to secure information networks is increasing in demand every day. The Palo Alto Networks firewalls have become the industry standard for front-line Cybersecurity appliances. This course is designed to teach students to configure and manage next-generation firewalls. This is the second course in a series of three that trains students to become Network Security professionals. Students will learn to build and deploy Global Protect systems, manage and maintain high availability firewall protection, and monitor network traffic. Upon completion, students will be prepared to take the PCNSA exam for certification. (CSU)

CIS-272
Palo Alto Networks Firewall Configuration, Management, and Threat Prevention **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 270 and CIS 271 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Palo Alto Networks firewalls are leaders in Cybersecurity. This is the third course designed to teach students how to plan for security, design and implement Palo Alto firewalls for optimum protection. Students will learn to build and deploy high availability firewalls for the defense of Enterprise network architecture. Students will also learn features necessary for setting up traffic handling, advanced content and user identification, quality of service, GlobalProtect, monitoring and reporting, and high availability of next-generation firewalls. This course prepares students to take the Palo Alto Certified Network Security Engineer (PCNSE) exam. (CSU)

CIS-290
Windows Server-Installing and Configuring **2 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 190 or equivalent or current Microsoft Certified Technology Specialist (MCTS) 70-680 certification
1.0 hours lecture, 3.0 hours laboratory
Comprehensive hands-on system administration course focusing on the installation, initial implementation, and configuration of Windows server software core services, including: Active Directory (AD) Domain Services, local storage, file and print services, group policy and server virtualization technologies. (CSU)

CIS-291
Linux System Administration **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 191 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Comprehensive hands-on application and instruction in multi-user, multi-tasking operating systems and networked operating systems. Topics include: operating system installation and configuration, storage configuration and management, server security configuration, user and group management, configuration and management of various server roles (such as LDAP, DNS, DHCP, Print, Mail, Samba, Apache), troubleshooting, and disaster recovery. Course maps to the Linux Professional Institute (LPI) Certification Level 4.5 exam and the Red Hat Systems Administrator certification. (CSU)

CIS-293
Windows Server-Administering **2 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 190 or equivalent or current Microsoft Certified Technology Specialist (MCTS) 70-680 certification
1.0 hours lecture, 3.0 hours laboratory
Comprehensive hands-on system administration course focusing on the administration tasks essential to administering a Windows server infrastructure, including: user and group management, network access, and data security. (CSU)

CIS-294
Windows Server-Advanced Configuration **2 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 190 or equivalent or current Microsoft Certified Technology Specialist (MCTS) 70-680 certification
1.0 hours lecture, 3.0 hours laboratory
Comprehensive hands-on system administration course focusing on advanced Windows server configuration tasks, including: fault tolerance, certificate services and identity federation. (CSU)

CIS-295
VMware Certified Professional **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CIS 290 or 291 or equivalent or two years verifiable server administration experience
2.0 hours lecture, 3.0 hours laboratory
Comprehensive hands-on instruction on enterprise level data center virtualization. Topics include: concepts of Data Center Virtualization; common IT virtualization challenges faced by organizations; and installation, configuration, and management of VMware vSphere (which consists of VMware ESXi and VMware vCenter Server). Course maps to the current VMware Certified Professional exam. (CSU)

Computer Science (CS)

CS-119
Program Design and Development **3 UNITS**
Corequisite: CS 119L
Recommended Preparation: "C" grade or higher or "Pass" in CIS 110 or equivalent
3.0 hours lecture
Introductory course in program design and development using Java or other object-oriented programming language to serve as a foundation for more advanced programming, computer science or networking courses. Emphasizes the development of problem-solving skills while introducing students to computer science through the use of a modern object-oriented programming language. Devotes attention to the development of effective software engineering practices emphasizing such principles as design decomposition, encapsulation, procedural abstraction, testing and software reuse. Students will learn and apply standard programming constructs, problem-solving strategies, the concept of an algorithm, fundamental data structures, the machine representation of data, and introductory graphics and networking. (C-ID COMP 112 (with CS 119L)) (CSU/UC)

CS-119L
Program Design and Development Lab **1 UNITS**
Corequisite: CS 119
Recommended Preparation: "C" grade or higher or "Pass" in CIS 110 or equivalent
3.0 hours laboratory
Laboratory tutorials, drills and programming problems designed to help students master the concepts and programming projects presented/assigned in CS 119. (C-ID COMP 112 (with CS 119)) (CSU/UC)

CS-165
Assembly Language and Machine Architecture **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CS 181 or CS 182 or equivalent, or experience programming in C/C++ or Java
3.0 hours lecture, 3.0 hours laboratory
This introductory course covers organization and behavior of real computer systems at the assembly-language level. Topics covered include number theory, registers, memory, CPU, linkers, debuggers, basic language syntax and high-level language/operating system interface. This course is intended for persons with a prior background in any other programming language and will emphasize those applications not easily performed using higher-level languages. (C-ID COMP 142) (CSU/UC)

CS-181
Introduction to C++ Programming **4 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CS 119 or equivalent, and intermediate algebra
3.0 hours lecture, 3.0 hours laboratory
Introduction to computer programming using a C family language. Students with no previous programming experience in C++ will learn computer organization and operation, binary representation of information, how to plan and create well-structured programs, write programs using sequence, selection and repetition structures, and create and manipulate sequential access files, structs, classes, pointers and arrays. (C-ID COMP 122) (CSU/UC) (AA/AS-2)

CS-182
Introduction to Java Programming **4 UNITS**
Prerequisite: Appropriate placement or intermediate algebra
Recommended Preparation: "C" grade or higher or "Pass" in CS 119 or equivalent or experience programming in C++ or Java
3.0 hours lecture, 3.0 hours laboratory
Introductory course in the basics of the Java programming language focusing on object oriented methodology. Topics include classes, methods, parameters, arrays, modularity, abstraction, exception handling, and stream and file I/O. In addition to writing and using new classes, students will utilize the AWT and/or Swing libraries of classes. Basic inheritance and mobile application programming are introduced. (C-ID COMP 122) (CSU/UC) (AA/AS-2)

CS-240
Discrete Structures **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CS 181 or CS 182 or equivalent, or experience programming in C/C++ or Java
3.0 hours lecture
This course is an introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include: Functions, Relations and Sets; Basic Logic; Proof Techniques; Basics of Counting; Graphs and Trees; and Discrete Probability. (C-ID COMP 152) (CSU/UC) (AA/AS-2)

CS-281
Intermediate C++ Programming and Fundamental Data Structures **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CS 181 or equivalent
3.0 hours lecture, 3.0 hours laboratory
Continuation of CS 181. Provides the programmer with professional training in memory management, documentation, structured programming, and programming to professional standards using C++. Explores some of the more advanced concepts of preprocessing, low-level data objects, recursion, and dynamic data structures including linked lists, stacks, queues and trees. Laboratory instruction includes program development and execution. (C-ID COMP 132) (CSU/UC)

CS-282
Intermediate Java Programming and Fundamental Data Structures **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CS 182 or equivalent
3.0 hours lecture, 3.0 hours laboratory
Continuation of CS 182. Implement and analyze a variety of data structures and the algorithms used with those data structures, and create abstract data types and learn how and when to utilize them. Fundamental data structures include multidimensional arrays, linked lists, stacks, queues, heaps, trees, and hash tables; learn when to use which of the available dynamic memory data structures. Tools for analyzing and predicting run time and memory usage are introduced, as is Big-O notation. A variety of sort algorithms are reviewed and analyzed for best, worst, and average case performance, and are compared with tree traversal algorithms. Develop increased sophistication in object-oriented basics such as inheritance, encapsulation, design of abstract data types and polymorphism, and will gain experience by working on larger programs and managing large, multi-programmer projects. Laboratory instruction includes program development and execution. Mobile and database applications will be introduced. (C-ID COMP 132) (CSU/UC)

Counseling (COUN)

COUN-095
Academic and Financial Aid Planning **0.5 UNITS**
0.5 hours lecture
This course will familiarize students with: (a) financial aid resources available to them to meet educational expenses; (b) Cuyamaca College's Financial Aid Satisfactory Academic Progress Policy; (c) federal/state regulations for determining and maintaining eligibility for financial aid eligibility; (d) the student's rights and responsibilities in receiving aid. Pass/No Pass only. Non-degree applicable.

COUN-101
Introduction to College **0.5-1 UNITS**
0.5 hours lecture
This course is designed to give an overview of student responsibilities, college expectations, academic regulations and policies. Students will discover the wealth of specialized student support services, examine requirement for certificate programs, associate degrees and transfer pathways, confidently navigate the college campus and website, and understand how they are part of a diverse campus community. Emphasis is placed on the transition to college learning and college life, self-reflection, and self-advocacy. Students will develop a preliminary educational plan to achieve personal and academic goals and apply critical analysis skills, information literacy, and successful attitudes in joining a college community. Pass/No Pass only. 0.5 hour lecture (0.5 unit), 1 hour lecture (1 unit).

COUN-110
Career Decision Making **1 UNITS**
1.0 hours lecture
Lecture, group discussion, experiential activities and career assessment tools will be utilized to assist students in identifying their individual interests, values, and personality styles. Students will conduct educational and career research that will help them relate their career assessment results to setting academic and career goals. Students will also learn essential skills for obtaining employment such as resume building and job interviewing techniques. (CSU)

COUN-120
College and Career Success **3 UNITS**
3.0 hours lecture
This course teaches academic and career success strategies to enhance lifelong learning and well-being. Students will explore and discover values, interests, and personal strengths to make meaningful choices about their educational, career, and personal goals. Students will learn how to be successful in college by improving study skills and exploring motivation. Success topics include managing stress, developing creativity, improving communications and relationships, and maintaining wellness in a diverse society. COUN 120 and COUN 150 combined; maximum UC credit, one course. (CSU/UC) (AA/AS-7A)

COUN-125
Diversity, Identity, and Career Development in the Workplace **3 UNITS**
3.0 hours lecture
This course examines diversity in the workplace as a critical social institution, focusing on policies, practices, and organizational dynamics that shape inclusivity. It explores the historical legislation and current societal movements influencing diversity, emphasizing the importance of cultural competency. Students will analyze individual identity, personal values, and the impact of culture on career development through various theories. The course also addresses culturally relevant workplace issues such as stereotypes, discrimination, and inclusive practices while promoting advocacy and allyship. By the end of the course, students will have a reimagined approach to diversity, incorporating social justice principles, inclusive team development, and effective multicultural communication strategies. (CSU) (AA/AS-4)

COUN-130
Study Skills and Time Management **1 UNITS**
1.0 hours lecture
This course is designed to prepare students to adjust to the academic community by learning to plan and study effectively within given time limitations. Strategies include: time management, goal setting, textbook mastery, library research skills, note-taking, exam preparation, stress reduction, and educational planning. (CSU)

COUN-135
Counseling and Identity in a Modern Multicultural Society **3 UNITS**
3.0 hours lecture
This course explores the different aspects of what makes us human, focusing on motivation, personality, identity, wellness, and diversity. Students will learn about motivation theories, including Maslow's hierarchy of needs, and how different factors shape identity. The course further addresses how identity is constructed through social influences, cultural factors, and gender roles, highlighting concepts like intersectionality and emotional intelligence. Additionally, the course will look at wellness and mental health, considering how social media and self-esteem affect our well-being. By the end of the course, students will develop a better understanding of diversity and learn how to communicate effectively across different cultures, preparing them to interact positively in a diverse modern society. (CSU/UC) (AA/AS-4)

COUN-140
Self Awareness and Interpersonal Relationships **3 UNITS**
3.0 hours lecture
This course analyzes the cognitive, behavioral, humanistic, and existential theories as they relate to the awareness of the self and the dynamics of healthy relationships. Using many of the skills suggested by the above theories, students will define and utilize personal achievement techniques, basic principles of healthy functioning, and effective coping strategies that facilitate the process of intra and interpersonal change and relationships. Utilizing the major theories in the field of psychology and psychotherapy, the development of a healthy and strong identity and an empowered sense of self will be explored. (CSU) (AA/AS-4)

COUN-150
Transfer Success **1 UNITS**
1.0 hours lecture
This course provides the information needed for a student to transfer to a baccalaureate institution, including strategies to achieve academic success and research skills essential to developing a comprehensive educational plan. Topics include the community college transfer process, selection of major, student support services, comparing and contrasting a variety of universities, and validation of one's educational goal. COUN 120 and COUN 150 combined; maximum UC credit, one course. (CSU/UC)

Economics (ECON)

ECON-C2001
Principles of Microeconomics **3 UNITS**
Prerequisite: Placement as determined by the college's multiple measures assessment process or completion of a course taught at or above the level of elementary algebra.
3.0 hours lecture
An introductory course using microeconomic models to understand individual decisions by consumers and firms, market outcomes including market failure, elasticity, market structures, labor markets, inequality, and the impact of government policies. Formerly ECON 121. Not open to students with credit in ECON 121. (C-ID ECON 201) (CSU/UC) (AA/AS-4, Cal-GETC-4)

ECON-C2002
Principles of Macroeconomics **3 UNITS**
Prerequisite: Placement as determined by the college's multiple measures assessment process or completion of a course taught at or above the level of elementary algebra.
3.0 hours lecture
An introductory course using models of the domestic and international economy to understand national income, unemployment, inflation, economic growth, inequality, the financial system, and monetary, fiscal, and other economic policies. Formerly ECON 120. Not open to students with credit in ECON 120. (C-ID ECON 202) (CSU/UC) (AA/AS-4, Cal-GETC-4)

ECON-110
Economic Issues and Policies **3 UNITS**
3.0 hours lecture
A one-semester course that provides general elementary knowledge of basic economic concepts and serves as an introduction to more advanced economics courses. Surveys current economic subjects including consumer economics, inflation, recession, competition, monopoly, world trade and competing economic systems. Not open to students with credit in ECON C2002 (formerly ECON 120) or ECON C2001 (formerly ECON 121). (CSU/UC) (AA/AS-4, Cal-GETC-4)

Common Course Numbering

ECON-C2001 Principles of Microeconomics and ECON-C2002 Principles of Macroeconomics are a part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage.

Education (ED)

ED-151
Effective Tutoring Strategies **1 UNITS**
1.0 hours lecture
This course is designed to prepare students for tutoring college students. Provides an overview of effective learner-centered and process-oriented tutoring strategies and practices. Topics include basic study skills, the tutoring cycle, learning styles, learning disabilities, behaviors and stresses that affect learning, communication skills, and diversity/cultural awareness. Students interested in working in the Tutoring Center must have a grade of "B" or higher in subject matter to qualify. Pass/No Pass only. Non-degree applicable.

ED-200
Teaching as a Profession **3 UNITS**
3.0 hours lecture
This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, kindergarten through grade 12 (K-12). Career exploration, historical and philosophical foundations of education, critical issues, California's content standards and frameworks, teaching performance standards, and conditions for effective learning are discussed. A minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher is required. Limitation on enrollment: must meet health and safety requirements for public school field experience placement. (C-ID EDUC 200) (CSU/UC)

Electronics Technology (ET)

ET-110
Introduction to Electricity and Electronics **4 UNITS**
3.0 hours lecture, 3.0 hours laboratory
This course includes the laws of physics as they relate to electricity and electronics. Topics include the history of electrical science, atomic structure, basic electrical laws, DC and AC circuits, semiconductors, integrated circuits, amplifiers, waveforms, electrical test equipment, circuit construction, and electrical safety. Knowledge of basic algebra and how to use scientific calculators is highly desirable. (CSU) (AA/AS-5)

Engineering (ENGR)

UC credit limit: all CADD courses, ENGR 119, ENGR 129, OH 200, OH 201 combined: maximum credit, one course

ENGR-100
Introduction to Engineering and Design **4 UNITS**
3.0 hours lecture, 3.0 hours laboratory
Introduction to engineering as a way of perceiving the world. Overview of design and analytical techniques, problem solving and strategic Introduction to engineering as a way of perceiving the world. Overview of design and analytical techniques, problem solving and strategic thinking, disciplines, and ethics. Fundamentals of engineering graphics as a universal language and application to the visualization, representation, and documentation of designed artifacts, including orthographic projections, pictorial, section, and detail views; creation of basic to intermediate solid parts and assemblies; dimensioning and tolerancing practices; thread notation per ASME Y14.5M-1994. This course covers the principles of engineering drawings in visually communicating engineering designs, and an introduction to solid modeling and computer-aided design (CAD). Assignments develop technical sketching and 2D and 3D CAD skills. The use of solid modeling CAD software (SolidWorks and Creo Parametric) is an integral part of the course, as is the production of physical prototypes using 3D printing and other techniques. This course focuses on the design process and on spatial reasoning and visualization. (C-ID ENGR 110) (CSU/UC)

ENGR-103
Environmental Engineering Seminar **3 UNITS**
3.0 hours lecture
Exploring the breadth and depth of environmental engineering field through presentations by invited faculty, guests, and seminar enrollees; includes individual library/internet research with written and oral presentations on selected environmental topics. (CSU)

ENGR-119
Introduction to Computer Aided Drafting and Design **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" or concurrent enrollment in CADD 115 or ENGR 100 or equivalent
Recommended Preparation: Working knowledge of PC computer operations and file administration
2.0 hours lecture, 3.0 hours laboratory
Concepts, techniques and procedures of Computer-Aided Drafting and Design (CADD). Offers a hands-on activity-based approach to the use of AutoCAD as a drafting tool. Course content focuses on manufacturing drawings, but also includes Architectural and General drawings. Students will develop a comprehensive understanding of computer-aided drafting in 2D geometry as well as in 3D-modeling. Also listed as CADD 119. Not open to students with credit in CADD 119, CADD 120. (CSU/UC)

ENGR-120
Engineering Computer Applications **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH C2210 (formerly MATH 180) or equivalent or concurrent enrollment
2.0 hours lecture, 3.0 hours laboratory
Use of computerized mathematical analysis, computer programming, and computer graphics as tools for solving engineering problems. (CSU/UC)

ENGR-125
Solid Modeling Design **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" or concurrent enrollment in CADD 115 or ENGR 100 or equivalent
Recommended Preparation: Working knowledge of PC computer operations and file administration
2.0 hours lecture, 3.0 hours laboratory
This is advanced graphic communication course using solid modeling techniques. This course covers feature based solid part construction including extrudes, cuts and revolves, loft and sweep. This also covers assembly construction and constraining in an engineering design environment. Students learn how to produce technical/engineering drawing including proper layout of component drawing views, sectioning, detailing and auxiliary views. Threads and fasteners are also included in this course. Dimensioning and tolerancing will be taught in accordance with ANSI standard. Introduction to 3D printing technology (aka Additive Manufacturing) is part of this course. SolidWorks software is used throughout the course. Also listed as CADD 125. Not open to students with credit in CADD 125. (CSU/UC)

ENGR-129
Engineering Solid Modeling **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" or concurrent enrollment in CADD 115 or ENGR 100 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Advanced 3D computer-aided mechanical design and drafting. This parametric modeling course provides skills and knowledge of appropriate software, such as Fusion, and associated commands and features using extrudes, cuts, revolves, lofts and sweeps. Students will enhance their skills in sheet metal design as well as model assembly and assembly drawings including proper organization and layout of component drawing views, dimensioning and tolerancing, sectioning and detailing. 3D printing technology (additive manufacturing) is integrated to this course. Also listed as CADD 129. Not open to students with credit in CADD 129. (CSU/UC)

ENGR-182
Work Experience in Engineering Technology **1-3 UNITS**
Prerequisite: Completion of a minimum of 10 units in an engineering technology program (e.g., CADD Technology, Mechatronics) and recommendation from engineering or CADD instructor. Must meet state guidelines for work experience.
Students who are employed in the engineering technology industry full-time or part-time (paid or unpaid) and able to work the minimum required hours during the semester are eligible to enroll in this course. Assessment of student will be performed by instructor in discussion with appropriate supervisor at place of employment. Students will further develop skills attained in the classroom setting. Preregistration counseling with the instructor is required. Occupational cooperative work experience may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. 54 hours paid or unpaid work experience per unit, 1-3 units. (CSU)

ENGR-199
Special Studies or Projects in Engineering **1-3 UNITS**
Prerequisite: Consent of instructor
Individual study, research or projects under instructor guidance. Written reports and periodic conferences required. Content and unit credit to be determined by student/instructor conferences and the Office of Instruction. May be repeated with different content for a maximum of 9 units. 48-54 hours (1 unit), 96-108 hours (2 units), 144-162 hours (3 units).

ENGR-200
Engineering Mechanics-Statics **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PHYC 201 or equivalent
Corequisite: MATH C2220 (formerly MATH 280) or previous enrollment
3.0 hours lecture
Engineering applications of the principles of static equilibrium of force systems acting on particles and rigid bodies; structural analysis of trusses, frames, and machines; forces in beams; dry friction; centroids and moments of inertia. (CSU/UC)

ENGR-210
Electric Circuits **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH C2220 (formerly MATH 280) and PHYC 202 or equivalent
3.0 hours lecture, 3.0 hours laboratory
Fundamentals of electrical circuits for engineers. Includes both DC and AC analysis. Concepts include Kirchhoff's laws, nodal and mesh analysis, linearity and superposition, Thevenin's theorem, ideal and real operational amplifiers, step response of first and second order RLC circuits, complex impedance, steady-state sinusoidal AC circuits, and AC power. Laboratory work supports the theory, and introduces basic lab practices and tools (e.g., oscilloscopes and signal generators). (CSU/UC)

ENGR-218
Plane Surveying **4 UNITS**
2.0 hours lecture, 6.0 hours laboratory
Use, care and adjustment of surveying instruments. Fundamental surveying methods, traverse measurements, and area computations. Introduction to horizontal and vertical curves, stadia, and construction layout. Introduction to topographic mapping. Earth work computations. Also listed as SURV 218. Not open to students with credit in SURV 218. (CSU/UC)

ENGR-220
Engineering Mechanics-Dynamics **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGR 200 or equivalent
3.0 hours lecture
Motion of particles, particle systems and rigid bodies, and the effects thereon of applied forces and moments. Newtonian laws of motion, work and energy; linear and angular momentum. Application to engineering problems. (C-ID ENGR 230) (CSU/UC)

ENGR-225
Mechanics for Civil Engineers **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH C2210 (formerly MATH 180) and PHYC 201 (for engineering focus) or PHYC 130 (for non-engineering focus) or equivalent
Recommended Preparation: Review of materials covered in the prerequisite for the course
3.0 hours lecture
Engineering applications of the principles of static equilibrium of force systems acting on particles and rigid bodies; structural analysis of trusses, frames, and machines; forces in beams; centroids and moments of inertia; kinematics and Newtonian laws of motion for particles. (CSU/UC)

ENGR-230
Basics of Mechatronics **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH C2220 (formerly MATH 280) and PHYC 202, or equivalent
2.0 hours lecture, 3.0 hours laboratory
Introductory mechatronics. Basic DC and AC circuits, breadboarding, capacitors, inductors, circuit components, integrated circuit amplifiers, filters, with applications to mechanical engineering. Ohm's Law. Laboratory topics include measurement techniques using function generator, multimeter, oscilloscope, and computer simulation using circuit analysis software. (CSU/UC)

ENGR-260
Engineering Materials **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PHYC 201 or equivalent
Corequisite: CHEM 141 or previous enrollment
3.0 hours lecture
Atomic and molecular structure of materials used in engineering. Analysis of the relationships between structure of materials and their mechanical, thermal, electrical, corrosion and radiation properties, together with examples of specific application to engineering problems. (CSU/UC)

ENGR-261
Materials Laboratory **1 UNITS**
Corequisite: ENGR 260
3.0 hours laboratory
Experimental methods used to characterize engineering materials and their mechanical behavior. Students will use a variety of material testing equipment to gain hands-on experience testing for materials properties and exploring the mechanical behaviors of materials. (CSU)

ENGR-270
Digital Design **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH 175 or 176 or equivalent
3.0 hours lecture, 3.0 hours laboratory
Modeling, analysis, simulation, design and construction of combinational and sequential digital logic systems and networks. (CSU/UC)

English (ENGL)

ENGL-C1000
Academic Reading and Writing **4 UNITS**
Prerequisite: Placement as determined by the college's multiple measures assessment process.
4.0 hours lecture
In this course, students receive instruction in academic reading and writing, including writing processes, effective use of language, analytical thinking, and the foundations of academic research. Open to students with credit in ESL 2 or equivalent. Formerly ENGL 120. Not open to students with credit in ENGL 120 or ESL 122. (C-ID ENGL 100) (CSU/UC) (AA/AS-1A, Cal-GETC-1A)

ENGL-C1001
Critical Thinking and Writing **3 UNITS**
Prerequisite: College-level composition (ENGL C1000/C-ID ENGL 100) or equivalent
3.0 hours lecture
In this course, students receive instruction in critical thinking for purposes of constructing, evaluating, and composing arguments in a variety of rhetorical forms, using primarily non-fiction texts, refining writing skills and research strategies developed in ENGL C1000 Academic Reading and Writing (C-ID ENGL 100) or similar first-year college writing course. Open to students with credit in ENGL C1000 (formerly ENGL 120) or ESL 122 or equivalent. Formerly ENGL 124. Not open to students with credit in ENGL 124. (C-ID ENGL 105) (CSU/UC) (AA/AS-1B, Cal-GETC-1B)

ENGL-C1002
Introduction to Literature **3 UNITS**
Prerequisite: Successful completion of college-level composition (ENGL C1000/ENGL C1000H/ENGL C1000E/C-ID ENGL 100) or equivalent.
3.0 hours lecture
In this course, students are introduced to works by diverse authors and major literary genres, developing close reading and analytical writing skills. Students also develop appreciation for and critical understanding of the cultural, historical, and aesthetic qualities of literature. Open to students with credit in ENGL C1000 (formerly ENGL 120) or ESL 122 or equivalent. Formerly ENGL 122 Introduction to Literature. Not open to students with credit in ENGL 122. (C-ID ENGL 120) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ENGL-020
Support for Academic Reading and Writing **1 UNITS**
Prerequisite: Appropriate Placement
Corequisite: Concurrent enrollment in ENGL C1000 (formerly ENGL 120)
1.0 hours lecture
This course is designed to review and reinforce the skills necessary to be successful in ENGL C1000 Academic Reading and Writing (formerly ENGL 120). Students study the elements and principles of composition through the practice of editing and revising narrative, expository, and argumentative essays. Students are also introduced to effective reading skills and strategies necessary for the analysis of college level material. Pass/No Pass only. Non-degree applicable.

ENGL-030
Comprehensive Support for Academic Reading and Writing **2 UNITS**
Corequisite: Concurrent enrollment in ENGL C1000 (formerly ENGL 120)
2.0 hours lecture
This course is designed to offer thorough, comprehensive support for students who are enrolled in ENGL C1000 Academic Reading and Writing. In a highly supported learning environment, students practice reading, writing, and revision strategies through scaffolded assignments that build transfer-level academic skills. Course emphasizes in-class writing, directly incorporates student support services, and fosters student self-awareness, reflection, and advocacy. Pass/No Pass Only. Non-Degree Applicable.

ENGL-126
Introduction to Creative Writing **3 UNITS**
Prerequisite: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
3.0 hours lecture
Introduction to the craft of creative writing through study and analysis of the works of established, contemporary, and peer writers. Students write short fiction, poetry, creative nonfiction, and drama, and use writing workshops and instructor feedback to evaluate and revise work. Opportunities for inclusion in college publications, student readings, literary events, and special projects. (C-ID ENGL 200) (CSU/UC) (AA/AS-3)

ENGL-130
Short Fiction Writing I **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGL C1000 (formerly ENGL 120) or ESL 122 or equivalent
Recommended Preparation: "C" grade or higher or "Pass" in ENGL 126 or equivalent
3.0 hours lecture
Discover the art of storytelling in this hands-on introduction to short fiction. You'll read and analyze powerful stories by classic and contemporary writers, then craft your own original short fiction using the techniques you learn. Workshops give you the chance to develop your voice, get feedback, and share your work publicly if you choose. This is an open-access course (all are welcome) and no previous experience is required-just curiosity and creativity. (CSU/UC)

ENGL-131
Short Fiction Writing II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGL 130 or equivalent
Recommended Preparation: "C" grade or higher or "Pass" in ENGL 126 or equivalent
3.0 hours lecture
Build on your short fiction writing skills in this second part of a four-course series. You'll deepen your craft through study of narrative technique, style, and story development while writing and revising original short fiction. Workshops and peer feedback help you refine your work for a final portfolio, and you'll explore opportunities for publication and public readings. Completion of ENGL 130 Short Fiction Writing I is required prior to enrollment; courses in the sequence may be taken individually thereafter. (CSU)

ENGL-132
Short Fiction Writing III **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGL 131 or equivalent
Recommended Preparation: "C" grade or higher or "Pass" in ENGL 126 or equivalent
3.0 hours lecture
Take your writing to the next level with the third course in a four-part series on Short Fiction Writing. You'll focus on voice, structure, and revision as you write and refine a collection of original stories. Through workshops and guided critique, you'll strengthen your artistic identity and prepare your work for submission to literary magazines or contests. Completion of Short Fiction II is required; courses in the sequence may be taken individually thereafter. (CSU)

ENGL-133
Short Fiction Writing IV **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGL 132 or equivalent
Recommended Preparation: "C" grade or higher or "Pass" in ENGL 126 or equivalent
3.0 hours lecture
In this capstone course, you'll complete and polish a cohesive portfolio of short fiction that reflects your growth as a writer. You'll revise deeply, explore advanced techniques, and prepare work for professional submission or public presentation. This course offers mentorship in publication, editing, and next steps for writers beyond the classroom. Completion of Short Fiction III is required; this course completes the four-part sequence. (CSU)

ENGL-140
Poetry Writing I **3 UNITS**
Prerequisite: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
Recommended Preparation: "C" grade or higher or "Pass" in ENGL 126 or equivalent
3.0 hours lecture
Explore the art and language of poetry in this introductory poetry writing course. You'll read work by poets past and present, experiment with form and voice, and create original poems that express your unique perspectives, experiences, and interests. Workshops and peer feedback help you grow as both writer and reader. This is an open access course (all are welcome) and no prior experience is required; courses in the sequence may be taken individually. (CSU/UC)

ENGL-141
Poetry Writing II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGL 140 or equivalent
3.0 hours lecture
Continue your journey as a poet in this second course in the Poetry Writing series. You'll deepen your understanding of poetic forms and techniques while drafting and revising your own poems. Class sessions focus on building a cohesive body of work and exploring publication and performance opportunities. Completion of ENGL 140 Poetry Writing I is required prior to enrollment; courses in the sequence may be taken individually thereafter. (CSU)

ENGL-142
Poetry Writing III **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGL 141 or equivalent
3.0 hours lecture
Advance your craft as a poetry writer through focused experimentation with style, structure, and theme. You'll workshop new poems, study contemporary voices, and develop a chapbook-length collection that reflects your growth as a writer. Feedback and mentorship help prepare your work for public reading or submission. Completion of ENGL 141 Poetry Writing II is required prior to enrollment; courses in the sequence may be taken individually thereafter. (CSU)

ENGL-143
Poetry Writing IV **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGL 142 or equivalent
3.0 hours lecture
Bring your work to its fullest expression in this capstone poetry writing course, the last in the series of four classes. You'll polish a portfolio of original poems for publication or performance and explore professional opportunities in editing, submission, and presentation. Through sustained feedback and revision, you'll refine your artistic voice and prepare to share it with the world. Completion of ENGL 142 Poetry Writing III is required prior to enrollment; courses in the sequence may be taken individually thereafter. (CSU)

ENGL-200
Work Experience in English **1-4 UNITS**
Practical application of the knowledge, skills, and abilities from English classes in a job or career setting. Work experience will be paid or unpaid at local businesses, organizations, or educational institutions that are relevant to career options for English majors. Placement assistance will be provided and done in collaboration between the faculty member and student. Work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of 12 units. 54 hours paid or unpaid work experience per unit, 1-4 units.

ENGL-201
Women, Gender, and Sexuality in Literature **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ENGL C1000 (formerly ENGL 120) or equivalent
3.0 hours lecture
This course is designed to examine gender and sexuality in diverse literature with emphasis on the representations of women. Students learn to use different theoretical lenses to critically interpret and discuss fiction, graphic literature, poetry, drama, and creative nonfiction in historical, political, literary, and cultural contexts. Through active reading and discussion, students interrogate how literature informs, reinforces, challenges, alters, resists, or otherwise influences social constructions of gender and sexuality. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ENGL-202
Introduction to Film as Literature **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ENGL C1000 (formerly ENGL 120) or equivalent
3.0 hours lecture
Discover how films tell powerful stories and explore what they reveal about the world around us. This course introduces cinematic techniques, narrative structures, film genres, and key concepts in film theory. Whether you're a film enthusiast or new to analysis, you'll gain tools to interpret and think critically about the movies you watch. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ENGL-217
Fantasy and Science Fiction **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ENGL C1000 (formerly ENGL 120) or ESL 122 or equivalent
3.0 hours lecture
An introductory survey of the genres of fantasy and science fiction, ranging from Gothic literature to Afrofuturism, and from Frankenstein to works being published right now. The course will examine the historical and socio-cultural contexts which informed and continue to influence this literature, and it will explore the place of fantasy and science fiction in popular culture past and present. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ENGL-221
British Literature I **3 UNITS**
Prerequisite: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
Recommended Preparation: "C" grade or higher or "Pass" in ENGL C1002 (formerly ENGL 122) or equivalent
3.0 hours lecture
This course is a survey of British literature from the Anglo-Saxon period up to the end of the Eighteenth Century. Students will examine the literature as a reflection of multiple and diverse experiences. The course may include discussions on historical, social, philosophical, religious, aesthetic, and cultural aspects of British Literature. It may include perspectives from various schools of critical theory. Reading selections may consist of poetry, short stories, plays, novels, and nonfiction prose, such as essays, autobiographies, and speeches. (C-ID ENGL 160) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ENGL-222
British Literature II **3 UNITS**
Prerequisite: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
Recommended Preparation: "C" grade or higher or "Pass" in ENGL C1002 (formerly ENGL 122) or equivalent
3.0 hours lecture
This course is a survey of British literature from the Romantic period to the present. Students will examine the literature as a reflection of multiple and diverse experiences. The course may include discussions on historical, social, philosophical, religious, aesthetic, and other cultural aspects of British Literature. It may include perspectives from various schools of critical theory. Reading selections may consist of poetry, short stories, plays, novels, and nonfiction prose, including essays, letters, political tracts, autobiographies, and speeches. (C-ID ENGL 165) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ENGL-231
American Literature I **3 UNITS**
Prerequisite: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
Recommended Preparation: "C" grade or higher or "Pass" in ENGL C1002 (formerly ENGL 122) or equivalent
3.0 hours lecture
Study of American literature which explores literary works and their contexts from pre-colonial America until 1860. Reading selections may consist of poetry, short stories, novels, and nonfiction prose from major literary figures as well as marginalized or lesser-known authors. Students read, discuss, analyze, and interpret texts, with a focus on the relationships between literature, national identity, and social movements. (C-ID ENGL 130) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ENGL-232
American Literature II **3 UNITS**
Prerequisite: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
Recommended Preparation: "C" grade or higher or "Pass" in ENGL C1002 (formerly ENGL 122) or equivalent
3.0 hours lecture
Study of American literature which explores literary works and their contexts from 1860 to the present. Reading selections may consist of poetry, short stories, novels, and nonfiction prose from major literary figures as well as marginalized or lesser-known authors. Students read, discuss, analyze, and interpret texts, with a focus on the relationships between literature, national identity, and social movements. (C-ID ENGL 135) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

ENGL-236
Chicana/o Literature **3 UNITS**
Recommended Preparation: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
3.0 hours lecture
This course is a survey of colonial, post-colonial, and contemporary Chicano/Chicana literature. Literary works originally written in English and the Chicano/a bilingual idiom as well as English translations of works written in Spanish will be taught. Reading selections may consist of poetry, ballads, short stories, novels, plays, and nonfiction prose. Students analyze the literature and apply critical theory to describe critical events in the histories, cultures, and intellectual and literary traditions, with special focus on the lived experiences, social struggles, and contributions of Latino/a Americans in the United States. Also listed as ETHN 236. Not open to students with credit in ETHN 236. (CSU/UC) (AA/AS-3,6, Cal-GETC-3B,6)

ENGL-238
Black Literature **3 UNITS**
Recommended Preparation: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
3.0 hours lecture
This course introduces students to a survey of Black literature, focusing on the early oral tradition, literature of slavery and freedom, the Harlem Renaissance, Modernism, the Black Arts Era, and the contemporary period. Reading selections may consist of poetry, short stories, plays, novels, and nonfiction prose, including essays, letters, political tracts, autobiographies, speeches, and sermons. Students analyze the literature and apply critical theory to describe critical events in the histories, cultures, and intellectual and literary traditions, with special focus on the lived experiences, social struggles, and contributions of African Americans in the United States. Also listed as ETHN 238. Not open to students with credit in ETHN 238. (CSU/UC) (AA/AS-3,6, Cal-GETC-3B,6)

ENGL-271
World Literature II **3 UNITS**
Prerequisite: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
3.0 hours lecture
This class offers a survey and analysis of diverse literary texts across the world. Students examine how literature shapes and reflects the human experience as well as global struggles over power, identity, and language. Students learn to use different theoretical lenses to interpret critically the historical, political, social, psychological, philosophical, aesthetic, and cultural aspects of literature from Africa, the Middle East, South and East Asia, the Caribbean, Oceania, Latin America, and Europe. Primary texts consist of fiction, graphic literature, poetry, drama, creative nonfiction, and film. (C-ID ENGL 145) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

Common Course Numbering:

ENGL-C1000 Academic Reading and Writing and ENGL-C1001 Critical Thinking and Writing are part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage.

English as a Second Language (ESL)

ESL-1A
Accelerated Reading and Writing for English as a Second Language **6 UNITS**
Recommended Preparation: Grade of "Pass" in ESL 050 or equivalent or assessment into ESL 1A
6.0 hours lecture
This course is designed to bring students up to the grammatical, reading and composition level needed for three to two levels below ESL 122 or ENGL C1000. The focus is on reading intermediate-level complex texts, analyzing with critical attitude, and writing paragraph-to-essay length papers with proper format and evidence of intermediate to high intermediate level academic depth and rigor of research. Students in this course are generally on an accelerated pathway through the English as a Second Language program. Non-degree applicable.

ESL-1AS
Support for ESL Accelerated Reading and Writing **3 UNITS**
Corequisite: Concurrent enrollment in ESL 1A or ESL 1B
3.0 hours lecture
This course focuses on supplemental instruction in grammar, reading, writing, listening, and speaking to complement the studies in ESL 1A (Accelerated Reading and Writing for English as a Second Language). It develops and adds to skills in grammar, sentence structure, text analysis, and oral communication such as is utilized in ESL 1A. Software may be utilized to reinforce skills introduced in class. Pass/No Pass only. Non-degree applicable.

ESL-1B
Advanced Accelerated Reading and Writing for English as a Second Language **6 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ESL 1A or equivalent placement into ESL 1B
6.0 hours lecture
This course follows the sequence begun with ESL 1A and is designed to bring students up to the grammatical, reading and composition level needed for two levels below ESL 122 or ENGL C1000. The focus is on reading more complex texts, analyzing with more advanced critical attitude, and writing paragraph-to-essay length papers with proper format and evidence of high intermediate to low advanced academic depth and rigor of research. Students in this course are generally on an accelerated pathway through the English as a Second Language program. Non-degree applicable.

ESL-1BS
Support for Advanced ESL Reading and Writing **3 UNITS**
Corequisite: Concurrent enrollment in ESL 1A or ESL 1B
3.0 hours lecture
This course focuses on supplemental instruction in grammar, reading, writing, listening, and speaking to complement the studies in ESL 1B (Accelerated Reading and Writing for English as a Second Language). It develops and adds to skills in grammar, sentence structure, text analysis, and oral communication such as is utilized in ESL 1B. Software may be utilized to reinforce skills introduced in class. Pass/No Pass only. Non-degree applicable.

ESL-2
Accelerated Composition for English as a Second Language **6 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ESL 1A or 1B, or assessment into ESL 2
6.0 hours lecture
This course is designed to bring students to the grammatical and composition level needed for ESL 122 or ENGL C1000. The focus is on writing the essay in proper format with proper depth of analysis and rigor of research. Critical written responses to academic readings are also emphasized. (CSU/UC)

ESL-2S
Support for ESL Accelerated Composition **3 UNITS**
Corequisite: Concurrent enrollment in ESL 2
3.0 hours lecture
This course focuses on supplemental instruction in grammar, reading, writing, listening, and speaking to complement the studies in ESL 2 (Accelerated Composition for English as a Second Language). It develops and adds to skills in grammar, sentence structure, text analysis, and oral communication such as is utilized in ESL 2. Software may be utilized to reinforce skills introduced in class. Pass/No Pass only. Non-degree applicable.

ESL-010
American Culture I **3 UNITS**
3.0 hours lecture
First course in United States culture and history for students to practice applied reading, writing, listening and speaking skills gained in the first two levels of the ESL program. Various aspects of United States culture and history such as important groups of people and individuals, geography, institutions, values, and issues will be studied. Pass/No Pass only. Non-degree applicable.

ESL-020
American Culture II **3 UNITS**
3.0 hours lecture
Second course in United States culture and history for students to practice applied reading, writing, listening and speaking skills gained in the third and fourth levels of the ESL program. Various aspects of United States culture and history such as important groups of people and individuals, geography, political ideologies, race-relations, and civil rights will be studied. Pass/No Pass only. Non-degree applicable.

ESL-045
Introduction to English Listening - Credit **6 UNITS**
6.0 hours lecture
ESL 045 is an English language course that introduces spoken English to those who have had little or no exposure to the English language. This course utilizes the most frequent words in the English language in input-based, meaningful tasks that make language comprehensible through methods developed by the principles of Teaching Proficiency through Reading and Storytelling with slight adaptations suggested by the principles of Accelerated Language Learning as developed by the ESL Department at Cuyamaca College. Students interact with the language in meaningful and engaging ways, with communicatively embedded comprehensible input, acquiring the language at the Intermediate Low level target according to the ACTFL proficiency guidelines with no explicit grammar instruction. Students will engage with and respond to the language, but they are not required to produce spontaneous speech at this level. Students are encouraged to take ESL 045R concurrently and before taking ESL 050. Pass/No Pass only. Non-degree applicable.

ESL-045NC
Introduction to English Listening - Non-Credit **0 UNITS**
6.0 hours lecture
ESL 045NC is an English language course that introduces spoken English to those who have had little or no exposure to the English language. This course utilizes the most frequent words in the English language in input-based, meaningful tasks that make language comprehensible through methods developed by the principles of Teaching Proficiency through Reading and Storytelling with slight adaptations suggested by the principles of Accelerated Language Learning as developed by the ESL Department at Cuyamaca College. Students interact with the language in meaningful and engaging ways, with communicatively embedded comprehensible input, acquiring the language at the Intermediate Low level target according to the ACTFL proficiency guidelines with no explicit grammar instruction. Students will engage with and respond to the language, but they are not required to produce spontaneous speech at this level. Students are encouraged to take ESL 045RNC concurrently and before taking ESL 050NC. Pass/No Pass only. Non-degree applicable. Non-credit course.

ESL-045R
Introduction to English Reading - Credit **6 UNITS**
6.0 hours lecture
ESL 045R is an English language course that introduces reading in English to those who have had little or no exposure to the English language. This course utilizes the most frequent words in the English language in discussion as well as books that are specifically selected based on comprehensible (optimum) input so that students with no prior knowledge of English can begin reading on the first day. This course aims to help students develop reading skills in English at the Intermediate Low level according to the ACTFL proficiency guidelines while learning frequent vocabulary. Students will interact with the texts in meaningful and engaging ways. Students are encouraged to take ESL 045 concurrently or before taking ESL 050. Pass/No Pass only. Non-degree applicable.

ESL-045RNC
Introduction to English Reading - Non-Credit **0 UNITS**
6.0 hours lecture
ESL 045RNC is an English language course that introduces reading in English to those who have had little or no exposure to the English language. This course utilizes the most frequent words in the English language in discussion as well as books that are specifically selected based on comprehensible (optimum) input so that students with no prior knowledge of English can begin reading on the first day. This course aims to help students develop reading skills in English at the Intermediate Low level according to the ACTFL proficiency guidelines while learning frequent vocabulary. Students will interact with the texts in meaningful and engaging ways. Students are encouraged to take ESL 045NC concurrently or before taking ESL 050NC. Pass/No Pass only. Non-degree applicable. Non-credit course.

ESL-050
Basic Accelerated Reading and Writing for English As a Second Language - Credit **6 UNITS**
Recommended Preparation: "Pass" in ESL 045 or 045R or assessment into ESL 050
6.0 hours lecture
This is the literacy course in the first level of the ESL accelerated course sequence. Students learn to read and write Basic English. They also learn basic word, phrase, and sentence grammar in a Just-In-Time remediation setting. In addition to reading, writing, and grammar, students learn classroom rules and communication necessary in academic settings. The course is designed to expose the students to all the skills necessary to enter a placement of four semesters below transfer level (ESL 1A), with the possibility of advancing in as little as two further semesters given the acceleration pathway. Pass/No Pass only. Non-degree applicable.

ESL-050NC
Basic Accelerated Reading and Writing for English as a Second Language - Non-Credit **0 UNITS**
6.0 hours lecture
This is the literacy course in the first level of the ESL accelerated course sequence. Students learn to read and write Basic English. They also learn basic word, phrase, and sentence grammar in a Just-In-Time remediation setting. In addition to reading, writing, and grammar, students learn classroom rules and communication necessary in academic settings. The course is designed to expose the students to all the skills necessary to enter a placement of four semesters below transfer level (ESL 1A), with the possibility of advancing in as little as two further semesters given the acceleration pathway. Pass/No Pass only. Non-degree applicable. Non-credit course.

ESL-050S
Basic Support for ESL Accelerated Reading and Writing - Credit **3 UNITS**
3.0 hours lecture
This course focuses on supplemental instruction in grammar, reading, writing listening, and speaking to complement the studies in ESL 050 (Basic Accelerated Reading and Writing for English as a Second Language). It develops and adds to skills in grammar, sentence structure, text analysis, and oral communication such as is utilized in ESL 050. Software may be utilized to reinforce skills introduced in class. Pass/No Pass only. Non-degree applicable.

ESL-050SNC
Basic Support for ESL Accelerated Reading and Writing - Non-Credit **0 UNITS**
3.0 hours lecture
This course focuses on supplemental instruction in grammar, reading, writing listening, and speaking to complement the studies in ESL 050NC (Basic Accelerated Reading and Writing for English as a Second Language-Noncredit). It develops and adds to skills in grammar, sentence structure, text analysis, and oral communication such as is utilized in ESL 050NC. Software may be utilized to reinforce skills introduced in class. Pass/No Pass only. Non-degree applicable. Non-credit course.

ESL-099A
ESL for the Workplace I **3 UNITS**
3.0 hours lecture
First course in the study of English for the workplace for students whose first language is other than English. Supplements language skills for beginning to intermediate ESL and focuses on using English in business situations. Learn simple business vocabulary, basic writing and oral communication skills, and word processing skills. Pass/No Pass only. Non-degree applicable.

ESL-099B
ESL for the Workplace II **3 UNITS**
3.0 hours lecture
Second course in the study of English for the workplace for students whose first language is other than English. Supplements language skills taught in ESL 050 and ESL 1A. Learn business vocabulary, intermediate writing, oral communication skills, and computer skills. Pass/No Pass only. Non-degree applicable.

ESL-122
College Rhetoric **6 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ESL 2 or advisory placement in ESL 122 or equivalent
6.0 hours lecture
ESL 122 is the transfer-level English course designed for advanced, non-native speakers to develop college-level critical reading, writing, and thinking skills and to enhance fluid listening and speaking through academic inquiry across the disciplines. Students analyze and evaluate a variety of texts in response to particular audiences and purposes. They study composition and rhetoric to craft accurate and fluent expository, analytical, and argumentative academic papers and oral presentations, including an extended argument, which synthesizes, integrates, and acknowledges multiple sources. Students expand their cultural competence through discussion and analysis of diverse media addressing contemporary issues and engage in meaningful dialogue with the instructor, peers, and target audience. (C-ID ENGL 100) (CSU/UC) (AA/AS-1A, Cal-GETC-1A)

Environmental Health and Safety Management (EHSM)

EHSM-100
Introduction to Environmental and Occupational Safety and Health (OSH) Management **4 UNITS**
4.0 hours lecture
This introductory course in Environmental Health and Safety Management (EHSM) provides an overview of the impact of physical, biological, and chemical hazards on our environment and human health. Specifically, it focuses on critical topics such as water and air pollution, land management, hazardous materials, worker rights, and regulatory oversight. Further, the course distinguishes between historical and current events that have prompted current legislation and best practices to minimize pollution and resource use, encourage worker health and rights, and create more sustainable societal practices. (CSU)

EHSM-110
Industrial Sustainability **3 UNITS**
3.0 hours lecture
Industrial sustainability focuses on the study of raw materials and chemicals used in industrial activities, their movement through the industrial process, and the evaluation of their impact on the environment. Topics will include evaluating environmental impacts, resource management and reduction, waste recycling, reuse and reduction, life cycle assessment of products, and sustainable procurement and distribution, renewable energy, green building, corporate social responsibility, and the applicable regulations and standards. (CSU)

EHSM-115
Runoff Sampling for Construction **1 UNITS**
1.0 hours lecture
Runoff Sampling for Construction provides basic understanding of sampling protocol generally associated with runoff sample collection under the Construction General Permit (CGP), but also for runoff sample collection in general. Attendance will involve online and in-person events, including hands-on sampling practice. The course will benefit those assigned to sample stormwater runoff that may not have a strong stormwater background. The course may also be used as credit for ongoing education for those performing stormwater sampling or reviewing sampling results and protocols. (CSU)

EHSM-117
Stormwater Best Management Practices for Construction **1 UNITS**
1.0 hours lecture
Best Management Practices (BMPs) for Construction provides a comprehensive understanding of erosion and sediment control for construction runoff, and for other construction pollutant sources, following municipal and general construction permit requirements. Students review the predominant erosion and sediment control BMPs for construction runoff before discharging to city stormwater collection systems or waterbodies. BMPs for other construction water quality pollutants such as metals and petroleum hydrocarbons will be introduced. The course distinguishes between BMP major categories such as erosion, sedimentation, and concentrated flow. Students will achieve a better understanding of installing or implementing BMPs as well as inspecting construction BMPs. Common errors in construction BMP installation and implementation will be highlighted. The BMPs for Construction course will benefit those working directly within or contracted to construction projects and provide knowledge for reviewing construction BMP plans, as well as improve inspectors' background to assess BMP implementation. The course may be used as credit for on-going education for those performing BMP implementation or reviewing BMP plans and protocols. (CSU)

EHSM-130
Environmental & Occupational Health Effects of Hazardous Materials **3 UNITS**
3.0 hours lecture
Study of the acute and chronic health effects produced by exposure to chemical, physical, and biological agents. Topics include routes of entry, toxic effects, risk evaluation, permissible exposure limits, medical surveillance, control methods for reducing exposure, and using Safety Data Sheets (SDS) to develop strategies to reduce worker exposure. (CSU)

EHSM-135
General Industry Safety Standards **3 UNITS**
3.0 hours lecture
Overview of the elements which are incorporated in a comprehensive general industrial safety program. Emphasizes methods used to reduce accidents/injuries through the application of workplace health protection and safety fundamentals. Topics include protocols, safety audits, data collection and analysis techniques, interpretation of safety data, safety inspections, development and implementation of safety programs, worker education, and the essentials of Personal Protective Equipment (PPE). (CSU)

EHSM-140
Laboratory Safety Management **4 UNITS**
4.0 hours lecture
An overview of laboratory safety management which may be performed by a safety technician in biotechnology, chemical manufacturing, university and private laboratory settings. Topics include recognition, evaluation and control of laboratory hazards associated with chemicals, radioactive materials, lasers, animals, laboratory equipment, and biological materials. Emphasis will be on environmental health and safety management duties performed in laboratory settings. (CSU)

EHSM-145
Construction Safety Standards **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in EHSM 100 or equivalent
3.0 hours lecture
Introduction to California and Federal (Cal/OSHA and Fed/OSHA) construction safety standards and regulations. Integrated study of hazard recognition and abatement principles related to the construction worksite. Topics include: compliance issues and challenges facing safety professionals including mishap and case study analysis; California and Federal construction safety standards; worksite inspection; interfacing with compliance officials; vertical and horizontal standards; and common construction industry compliance issues. (CSU)

EHSM-150
Hazardous Waste Management Applications **4 UNITS**
4.0 hours lecture
Overview of hazardous waste regulations with an emphasis on generator compliance, site investigation, remediation, permitting, enforcement, and liability. Explains the hazardous waste regulatory framework and the types of environmental resources available; develops research skills in the hazardous waste area; and provides hands-on application of the regulations at the technician level. Topics include proper methods of preparing a hazardous waste manifest, labeling of storage containers, sampling and analysis, preparing an Environmental Audit, and selecting environmental consultants. (CSU)

EHSM-200
Hazardous Materials Management (HMM) Applications **4 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in EHSM 100 or equivalent or concurrent enrollment
4.0 hours lecture
Requirements and applications of federal, state and local hazardous materials laws and Requirements and applications of federal, state and local hazardous materials laws and regulations. Emphasizes program compliance with OSHA (Occupational Health and Safety Administration) Hazard Communication Plan, EPA (Environmental Protection Agency) Community Right-To-Know, Department of Transportation, Proposition 65, and Emergency Response Plan. Includes the legal framework of hazardous materials laws and requirements and step-by-step program development: written plan, obtaining/interpreting MSDS (Material Safety Data Sheets), labeling, emergency responders site map, shipping, handling, and training. Students will develop plans related to hazardous materials management through hands-on program development: DEH/HMD (Department of Environmental Health/Hazardous Materials Division) Hazardous Material Business Plan, OSHA Hazardous Communication Plan, components of CalARP (California Accidental Release Prevention) and RMP (Risk Management Plan), and planning and reporting functions. (CSU)

EHSM-201
Introduction to Industrial Hygiene and Occupational Health **4 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in EHSM 100 or equivalent or concurrent enrollment
3.0 hours lecture, 3.0 hours laboratory
Introduction to the principles of anticipating, recognizing, evaluating, and controlling biological, chemical, and physical hazards in occupational settings. Examination of the historical development of industrial hygiene and occupational health and safety as professional disciplines. Emphasis on basic physiological processes and the health effects associated with occupational exposures. Includes an overview of occupational health and safety programs and applicable government regulations. Covers industrial hygiene monitoring and sampling techniques for airborne chemical contaminants and physical hazards such as noise, heat, and ionizing and non-ionizing radiation. (CSU)

EHSM-205
Safety and Risk Management Administration **4 UNITS**
4.0 hours lecture
Study of how accidents and incidents occur in the occupational health and safety environment. Instruction in the establishment and maintenance of safety programs and comprehensive analysis of occupational health programs with an emphasis on safety program management. Topics include: planning approaches to safety and health management used by international, national and local regulatory agencies, insurance companies, and professional societies; risk management; worker compensation; and employee accommodations in the workplace. Students will develop plans related to safety and risk management. (CSU)

EHSM-210
Industrial Wastewater and Stormwater Management **4 UNITS**
4.0 hours lecture
Overview of water/wastewater regulations with an emphasis on federal, state and local regulatory standards. Integrated study of the principles of wastewater and stormwater management including hydrology, water distribution, wastewater collection, stormwater management, and overall safe drinking water issues. (CSU)

EHSM-215
Air Quality Management **3 UNITS**
3.0 hours lecture
Overview of air quality regulations with an emphasis on federal, state and local requirements. Integrated study of the principles of air permits and permit compliance including source testing, emission reduction, inspections, monitoring, stationary and mobile sources, air toxics, new equipment shakedown, and overall global air quality issues. (CSU)

EHSM-220
Stormwater Runoff Management Regulatory Concepts **1 UNITS**
1.0 hours lecture
Stormwater Runoff Management Regulatory Concepts introduces the background and regulations applicable in stormwater management to workers, managers, and inspectors in industrial, construction, agriculture, tribal and municipal industries. Coursework covers fundamental stormwater rules and regulations, and educational measures behind stormwater and watershed management. Applications include understanding stormwater permit requirements, concepts of water quality, and recognizing Best Management Practices (BMPs) in field settings. The course provides entry-level coursework in stormwater management for those entering or working in stormwater positions and background knowledge for those seeking State or nationwide certifications such as Qualified SWPPP Developer (QSD), Qualified SWPPP Practitioner (QSP), or Qualified Industrial SWPPP Practitioner (QISP). (CSU)

EHSM-221
Stormwater Runoff Management Technical Background **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in EHSM 220 or equivalent
1.0 hours lecture
Stormwater Runoff Management Technical Background provides background knowledge in stormwater management for managers and inspectors in industrial, construction, agriculture, tribal and municipal operations. Coursework covers a brief review of stormwater regulations and introduces the applicable technical math, water quality, and chemistry contexts for understanding stormwater runoff. Applications include understanding units of concentrations and loadings applied to Best Management Practices (BMPs) in field settings. The course provides entry-level coursework for stormwater management and reporting, and skills for those seeking or pursuing positions in stormwater such as Qualified SWPPP Developer (QSD), Qualified SWPPP Practitioner (QSP), or Qualified Industrial SWPPP Practitioner (QISP). (CSU)

EHSM-223
Stormwater Runoff Management Construction Inspections **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in EHSM 220 or equivalent
1.0 hours lecture
Stormwater Runoff Management Construction Inspections provides applicable skills in stormwater management to inspectors in construction and municipal enforcement. Coursework covers a review of stormwater rules and regulations and applying Best Management Practices (BMPs) in field settings. The Stormwater Runoff Management Construction Inspections course provides knowledge and skills to inspect to Construction BMPs for erosion, sedimentation and construction materials and wastes. (CSU)

EHSM-225
Stormwater Runoff Management Post-Construction Best Management Practice Inspections **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in EHSM 220 or equivalent
1.0 hours lecture
Stormwater Runoff Management Post-Construction Best Management Practices (BMPs) Inspections provides applicable skills in stormwater management to municipal inspectors for stormwater post-construction BMPs. Coursework covers a review of stormwater rules/regulations, inspection demands of various post-construction BMP operations, and common inspection form completion. Applications include understanding Municipal Separate Storm SEWR System (MS4) permit requirements, principles of hydraulic and water quality mechanisms for post-construction BMPs and inspecting toward effective operational BMPs during storms. The course provides knowledge and skills to meet goals and expectations of post-construction BMP inspections. (CSU)

EHSM-226
Erosion and Sedimentation Concepts **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in EHSM 220 or equivalent
1.0 hours lecture
Erosion and Sedimentation Concepts applies to construction, agricultural and other sites with an emphasis on erosion control, Best Management Practice (BMP) selection, and site inspections. The course describes regulations supported by erosion and sedimentation theory and practices/controls and demanding the understanding of the various aspects of erosion and sedimentation theory. Primary topics and applications involve erosion and sedimentation historically in agriculture and the transitional application into construction and watershed management. (CSU)

EHSM-227
Erosion and Sedimentation Calculations **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in EHSM 220 or equivalent
1.0 hours lecture
Erosion and Sedimentation Calculations applies to construction, agricultural and other land uses with an emphasis on erosion control calculation, sediment load calculations, and Best Management Practice (BMP) design. The course involves calculations evolving from erosion and sedimentation theory and transitioning to erosion and sediment control. Erosion and sedimentation calculation scenarios are reviewed in agriculture and the transitional application into construction. (CSU)

EHSM-228
Stormwater Quality Concepts **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in EHSM 220 or equivalent
1.0 hours lecture
Stormwater Quality Concepts applies to construction, industrial and agricultural operations and watershed/land use management impacts on water quality, aquatic life, and water resources. The course covers regulations behind water quality standards, pollutant sources, and runoff theory. Topics support holistic watershed management, including water quality loading patterns from municipal, agricultural, commercial, and other natural and developed land use runoff for regulatory Waste Load Allocations and Total Maximum Daily Loads. (CSU)

EHSM-229
Stormwater Quality Calculations **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in EHSM 220 or equivalent
Recommended Preparation: Statistics C1000 - Introduction to Statistics
1.0 hours lecture
Stormwater Quality Calculations applies to construction, industrial, municipal, tribal, and agricultural operations, as well as overall watershed and land use management with an emphasis on water quality BMP design/selection and water quality pollutant loading calculations. The course involves calculations, models and regulations behind water quality standards, pollutant sources and details runoff theory and understanding of the various aspects of pollutant build-up and wash-off theory. Special topics include water quality loading patterns from natural and developed land use runoff, as well as the impact to living organisms and aquatic environments. (CSU)

EHSM-230
HAZWOPER Certification **3 UNITS**
3.0 hours lecture
Instruction in safety and emergency response to chemical and physical exposures in industrial and field settings. Topics include: hazard analysis; contingency planning; housekeeping and safety practices including proper use and selection of PPE (Personal Protective Equipment); site control and evaluation; handling drums and containers; field sampling and monitoring; proper use of instruments; incident response planning; emergency response including field exercises in the use of PAPR (Powered Air Purifying Respirator) and SCBA (Self Contained Breathing Apparatus); and an overview of the ICS (Incident Command System). Satisfies requirements for generalized employee training under OSHA (Occupational Health and Safety Administration) [29 CFR 1910.120] and Title 8, California Code of Regulations [5192 (e) (3) (A)]. (CSU)

EHSM-240
Cooperative Work Experience **1-4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in EHSM 100 or equivalent
Practical application of principles and procedures learned in the classroom to various phases of Environmental Health and Safety Management (EHSM). Work experience will be paid or volunteer positions at local industries or governmental agencies that regulate environmental industries. Placement assistance will be provided, but students are required to select and secure a placement site. Minimum of one unit of work experience is required to complete the EHSM certificate/degree. Occupational cooperative work experience credit may accrue at the rate of one to 8 units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of 8 units in EHSM. 54 hours paid or unpaid work experience per unit, 1-4 units. (CSU)

EHSM-250
EHS Field Applications **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in EHSM 100 or equivalent
Recommended Preparation: Occupational Safety and Health Management degree/certificate students should complete EHSM 130, 135, 200, 201, 205 and 230. Environmental Management degree/certificate students should complete EHSM 150, 200, 210, 215 and 230.
1.0 hours lecture, 6.0 hours laboratory
Field experiences will enhance student abilities to perform various Environmental Health and Safety Management (EHSM) applications under the direction of a qualified EHS professional. Applied experience will provide students with important workplace critical thinking, written and verbal communication, and technical skills difficult to learn in the classroom environment. (CSU)

Ethnic Studies (ETHN)

ETHN-107
History of Race & Ethnicity in the United States **3 UNITS**
3.0 hours lecture
An introduction to the social, cultural, and historical experiences of racial and ethnic groups and their roles in shaping the United States. Focus will be on migration, colonization, racialization, discrimination, assimilation, social stratification, resistance and agency, liberation movements, and the intersection of racial, ethnic, gender, and sexual identities as they relate to African Americans, Asian Americans, Latinas/os/x, and Native Americans. Also listed as HIST 107. Not open to students with credit in HIST 107. (CSU/UC) (AA/AS-4,6, Cal-GETC-4,6)

ETHN-114
Introduction to Race & Ethnicity **3 UNITS**
3.0 hours lecture
An introduction to the sociological analysis of ethnicity, race, and immigration in the United States. Topics include the history of racialized and minoritized groups in the United States, patterns of interaction between racial and ethnic groups, colonialism, immigration, identity formation, prejudice, discrimination, ethnocentrism, racism, institutional racism, social movements for civil rights, liberation and decolonization, and the intersection of race and ethnicity with other forms of difference. Also listed as SOC 114. Not open to students with credit in SOC 114. (C-ID SOCI 150) (CSU/UC) (AA/AS-4,6, Cal-GETC-4,6)

ETHN-120
Introduction to Ethnic Studies **3 UNITS**
3.0 hours lecture
An interdisciplinary study of the major concepts in the study of race and racism in the United States. Centering Native American, Black American, Asian American, Latina/x/o American experiences, this course compares and relates the histories, struggles, resistances, and contributions of these groups. Major emphasis is on understanding how racial and ethnic power dynamics contribute to social inequities and how communities draw from solidarity and fight the power. (CSU/UC) (AA/AS-4, Cal-GETC-4)

ETHN-128
Introduction to Chicana/o Studies **3 UNITS**
3.0 hours lecture
This course provides an introduction to Chicana, Chicano, Chicanx experiences in the United States. It considers the histories, struggles, resistance, and contributions. Emphasis is on proving origins to the discipline of Chicano Studies and overall general knowledge. (CSU/UC) (AA/AS-4, Cal-GETC-4)

ETHN-130
U.S. History and Cultures: Native American Perspectives I **3 UNITS**
3.0 hours lecture
This course covers the social, political, cultural, economic, and intellectual history of indigenous groups in North America from pre-history to 1850. Areas of focus include: Native American perspectives of native and non-native cultures, the influence of Native Americans on the Federal Constitution and the U.S. political system, the impact of legislation on Native Americans, and Native American resistance and adaptability in response to land encroachment, racial and ethnic discrimination, and assimilation strategies. Also listed as HIST 130. Not open to students with credit in HIST 130. (CSU/UC) (AA/AS-4, Cal-GETC-4)

ETHN-131
U.S. History and Cultures: Native American Perspectives II **3 UNITS**
3.0 hours lecture
This course covers the social, political, cultural, economic, and intellectual history of indigenous groups in North America from 1850 to the present. Areas of focus include: Native American perspectives of native and non-native cultures, the portrayal and influence of Native Americans in popular culture, the influence of Native Americans on the California State Constitution and government, the impact of State and Federal legislation on Native Americans, and Native American agency and resistance movements in the struggle for civil and political rights and indigenous sovereignty. Also listed as HIST 131. Not open to students with credit in HIST 131. (CSU/UC) (AA/AS-4, Cal-GETC-4)

ETHN-145
Introduction to Black Studies **3 UNITS**
3.0 hours lecture
This course is an overview of Black Studies, including origins of the discipline and general knowledge of Black experiences. Emphasis will be on the development of African American Studies and its frameworks such as Afrocentricity and intersectionality, contributions and creations from the Black community, structural impacts on the community, and historical and contemporary issues through struggle and resistance. (CSU/UC) (AA/AS-4, Cal-GETC-4,6)

ETHN-162
Introduction to Asian American Studies **3 UNITS**
3.0 hours lecture
This course centers Asian American and Pacific Islander experiences in the United States. We focus on the founding of Asian American Studies, the development of a panethnic consciousness, the resistance for and by the communities, and more. By utilizing and Ethnic Studies lens, we see the positioning of Asian Americans by others vis a vis whiteness as well as the points of solidarity with other groups. (CSU/UC) (AA/AS-4,6)

ETHN-236
Chicana/o Literature **3 UNITS**
Recommended Preparation: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
3.0 hours lecture
This course is a survey of colonial, post-colonial, and contemporary Chicano/Chicana literature. Literary works originally written in English and the Chicano/a bilingual idiom as well as English translations of works written in Spanish will be taught. Reading selections may consist of poetry, ballads, short stories, novels, plays, and nonfiction prose. Students analyze the literature and apply critical theory to describe critical events in the histories, cultures, and intellectual and literary traditions, with special focus on the lived experiences, social struggles, and contributions of Latino/a Americans in the United States. Also listed as ENGL 236. Not open to students with credit in ENGL 236. (CSU/UC) (AA/AS-3,6, Cal-GETC-3B,6)

ETHN-238
Black Literature **3 UNITS**
Recommended Preparation: Placement into ENGL C1000 (formerly ENGL 120) or ESL 122
3.0 hours lecture
This course introduces students to a survey of Black literature, focusing on the early oral tradition, literature of slavery and freedom, the Harlem Renaissance, Modernism, the Black Arts Era, and the contemporary period. Reading selections may consist of poetry, short stories, plays, novels, and nonfiction prose, including essays, letters, political tracts, autobiographies, speeches, and sermons. Students analyze the literature and apply critical theory to describe critical events in the histories, cultures, and intellectual and literary traditions, with special focus on the lived experiences, social struggles, and contributions of African Americans in the United States. Also listed as ENGL 238. Not open to students with credit in ENGL 238. (CSU/UC) (AA/AS-3,6, Cal-GETC-3B,6)

Exercise Science (ES)

ES-001
Adapted Physical Exercise **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Assessment of physical performance status and postural evaluation. Individually prescribed exercise programs for the physically disabled. Recreational games and individual sports adapted to students' capabilities. (CSU/UC) (AA/AS-7B)

ES-008A
Beginning Indoor Cycling **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
This course is designed to provide a beginning level indoor cycling experience to develop the key components of health-related physical fitness: cardiorespiratory, endurance, muscular strength/endurance, body composition, and flexibility. The components of fitness will be met through structured individually paced indoor group cycling classes. Students will also learn the fundamental principles of physical fitness and their impact on a life-long health and wellness. (CSU/UC) (AA/AS-7B)

ES-008B
Intermediate Indoor Cycling **1 UNITS**
Recommended Preparation: ES 008A Beginning Indoor Cycling
1.0 hours lecture, 1.0 hours laboratory
This course is designed to provide an intermediate level indoor cycling experience to develop the key components of health-related physical fitness: cardiorespiratory, endurance, muscular strength/endurance, body composition, and flexibility. The components of fitness will be met through structured individually paced indoor group cycling classes. Students will also learn the fundamental principles of physical fitness and their impact on a life-long health and wellness. (CSU/UC) (AA/AS-7B)

ES-008C
Advanced Indoor Cycling **1 UNITS**
Recommended Preparation: ES 008B Intermediate Indoor Cycling
1.0 hours lecture, 1.0 hours laboratory
This course is designed to provide an advanced level indoor cycling experience to develop the key components of health-related physical fitness: cardiorespiratory, endurance, muscular strength/endurance, body composition, and flexibility. The components of fitness will be met through structured individually paced indoor group cycling classes. Students will also learn the fundamental principles of physical fitness and their impact on a life-long health and wellness. (CSU/UC) (AA/AS-7B)

ES-009A
Beginning Cardio Dance Exercise **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Introduction to cardio dance exercise fitness through rhythmic movement to condition the musculoskeletal and cardiorespiratory systems. Emphasis is placed on enhancing cardiovascular endurance, muscular endurance, and flexibility through assessment and monitoring. Students will also explore principles of fitness and wellness, along with related health topics to support lifelong health and well-being. (CSU/UC) (AA/AS-7B)

ES-009B
Intermediate Cardio Dance Exercise **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 009A or equivalent or specified skill competencies
1.0 hours lecture, 1.0 hours laboratory
Intermediate cardio dance exercise designed to develop fitness through rhythmic movement. More complex movement patterns, routines and equipment will be used to increase intensity of exercise to achieve an increased level of fitness. Students will also explore principles of fitness and wellness, along with related health topics that support lifelong health and well-being. (CSU/UC) (AA/AS-7B)

ES-009C
Advanced Cardio Dance Exercise **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 009B or equivalent or specified skill competencies
1.0 hours lecture, 1.0 hours laboratory
Advanced cardio dance exercise designed to further develop fitness through rhythmic movement and complex choreography. Emphasis is placed on advanced conditioning of the cardiorespiratory and musculoskeletal systems, integrating higher-intensity intervals, agility, and coordination. Students will explore principles of fitness and wellness, along with related health topics to support lifelong health and well-being. (CSU/UC) (AA/AS-7B)

ES-014A
Beginning Weight Training **1.5 UNITS**
1.0 hours lecture, 2.0 hours laboratory
Instruction and practice in weight training and conditioning techniques to support muscle strength, endurance, and overall fitness. Emphasis is placed on evidence-based principles of resistance exercise, safe lifting techniques, and adaptable training methods. Students will create and modify a personalized program based on their goals, including, but not limited to: muscle strength, hypertrophy, and endurance. This course encourages an inclusive, supportive environment that recognizes diverse bodies, abilities, and experiences in health and fitness. (CSU/UC) (AA/AS-7B)

ES-014B
Intermediate Weight Training **1.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 014A or equivalent
1.0 hours lecture, 2.0 hours laboratory
This course builds on foundational weight training principles, providing intermediate Instruction in strength and conditioning methods that emphasize muscular endurance, strength and functional movement. Students will deepen their understanding of program design, technique refinement, and adaptations for diverse goals and abilities. Emphasis is placed on inclusive practices that support personal growth, body diversity, and accessible fitness training. (CSU/UC) (AA/AS-7B)

ES-014C
Advanced Weight Training **1.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 014B or equivalent
1.0 hours lecture, 2.0 hours laboratory
This course builds on intermediate weight training principles, providing advanced instruction in strength and conditioning methods that emphasize muscular endurance, strength, and functional movement. Students will deepen their understanding of advanced program design, technique refinement, and adaptations for diverse goals and abilities. Emphasis is placed on inclusive practices that support personal growth, body diversity, and accessible fitness training. (CSU/UC) (AA/AS-7B)

ES-019A
Beginning Physical Fitness **1.5 UNITS**
1.0 hours lecture, 2.0 hours laboratory
Introduction to the fundamentals of physical fitness and wellness. Emphasis on developing cardiovascular endurance, muscular strength and endurance, flexibility, and healthy body composition. Students will explore principles of exercise science, nutrition, and lifestyle choices to support lifelong health and well-being. (CSU/UC) (AA/AS-7B)

ES-019B
Intermediate Physical Fitness **1.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 019A or equivalent
1.0 hours lecture, 2.0 hours laboratory
Intermediate-level instruction in physical fitness and wellness with an emphasis on applying training principles to improve cardiovascular endurance, muscular fitness, flexibility, body composition, and skill-related components. Students will refine personal fitness goals, design and implement structured exercise programs using the F.I.T.T. principle and progressive overload, and analyze nutrition strategies to support performance, recovery, and lifelong health. (CSU/UC) (AA/AS-7B)

ES-019C
Advanced Physical Fitness **1.5 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 019B or equivalent
1.0 hours lecture, 2.0 hours laboratory
Advanced-level instruction in physical fitness and wellness with an emphasis on independent program design, advanced training methods, and long-term application of exercise science principles. Students will demonstrate mastery of cardiovascular endurance, muscular strength and endurance, flexibility, body composition, and skill-related components through performance-based assessments. Nutrition, recovery strategies, and periodization principles will be applied to optimize fitness outcomes and lifelong wellness. (CSU/UC) (AA/AS-7B)

ES-024A
Beginning Fitness Boot Camp **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
This course presents a fast-paced, regimented style exercise program designed at a beginning level that works the entire body through the use of calisthenics, running, body resistance training and agility drills designed to promote physical fitness and weight control. Using a variety of basic activities, emphasis will be placed on self-discipline, intensity, and goal-oriented basic exercise programming. The course will utilize numerous training modalities including cross-training, basic boxing, plyometrics, speed and agility, core stability, flexibility training as well as cardiovascular endurance. Students will also learn the fundamental principles of physical fitness and their impact on life-long health and wellness. (CSU/UC) (AA/AS-7B)

ES-024B
Intermediate Fitness Boot Camp **1 UNITS**
Recommended Preparation: ES 024A Beginning Fitness Boot Camp
1.0 hours lecture, 1.0 hours laboratory
This course presents a fast-paced, regimented style exercise program designed at an intermediate level that works the entire body through the use of calisthenics, running, body resistance training and agility drills designed to promote physical fitness and weight control. Using a variety of basic activities, emphasis will be placed on self-discipline, intensity, and goal-oriented basic exercise programming. The course will utilize numerous training modalities including cross-training, basic boxing, plyometrics, speed and agility, core stability, flexibility training as well as cardiovascular endurance. Students will also learn the fundamental principles of physical fitness and their impact on life-long health and wellness. (CSU/UC) (AA/AS-7B)

ES-024C
Advanced Fitness Boot Camp **1 UNITS**
Recommended Preparation: ES 024B Intermediate Fitness Boot Camp
1.0 hours lecture, 1.0 hours laboratory
This course presents a fast-paced, regimented style exercise program designed at an advanced level that works the entire body through the use of calisthenics, running, body resistance training and agility drills designed to promote physical fitness and weight control. Using a variety of basic activities, emphasis will be placed on self-discipline, intensity, and goal-oriented basic exercise programming. The course will utilize numerous training modalities including cross-training, basic boxing, plyometrics, speed and agility, core stability, flexibility training as well as cardiovascular endurance. Students will also learn the fundamental principles of physical fitness and their impact on life-long health and wellness. (CSU/UC) (AA/AS-7B)

ES-028A
Beginning Yoga **1.5 UNITS**
1.0 hours lecture, 2.0 hours laboratory
This course is designed to help students increase flexibility and balance as well as practice relaxation and stress reduction through beginning Yoga techniques. The course will focus on safe, effective stretching, balance, stability of supporting muscle groups and breathing techniques. Discussion regarding the history and traditions of Yoga as well as stress reduction will take place. Students will also learn the fundamental principles of physical fitness and their impact on life-long wellness. (CSU/UC) (AA/AS-7B)

ES-028B
Intermediate Yoga **1.5 UNITS**
Recommended Preparation: ES 028A Beginning Yoga
1.0 hours lecture, 2.0 hours laboratory
This course is designed to help students increase flexibility and balance as well as practice relaxation and stress reduction through intermediate Yoga techniques. The course will focus on safe, effective stretching, balance, stability of supporting muscle groups and breathing techniques. Discussion regarding the history and traditions of Yoga as well as stress reduction will take place. Students will also learn the fundamental principles of physical fitness and their impact on life-long wellness. (CSU/UC) (AA/AS-7B)

ES-028C
Advanced Yoga **1.5 UNITS**
Recommended Preparation: ES 028B Intermediate Yoga
1.0 hours lecture, 2.0 hours laboratory
This course is designed to help students increase flexibility and balance as well as practice relaxation and stress reduction through advanced Yoga techniques. The course will focus on safe, effective stretching, balance, stability of supporting muscle groups and breathing techniques. Discussion regarding the history and traditions of Yoga as well as stress reduction will take place. Students will also learn the fundamental principles of physical fitness and their impact on life-long wellness. (CSU/UC) (AA/AS-7B)

ES-060A
Beginning Badminton **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Presentation of the official singles and doubles games including the six basic strokes, footwork, strategy and etiquette. (CSU/UC) (AA/AS-7B)

ES-060B
Intermediate Badminton **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 060A or equivalent
1.0 hours lecture, 1.0 hours laboratory
Continuation of ES 060A with an emphasis on playing strategy and match play in singles and doubles. (CSU/UC) (AA/AS-7B)

ES-060C
Advanced Badminton **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 060B or equivalent
1.0 hours lecture, 1.0 hours laboratory
Advanced playing techniques, strategy, knowledge and attitudes for students who wish to excel in badminton and increase aerobic capacity. (CSU/UC) (AA/AS-7B)

ES-061A
Beginning Pickleball **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
This is a beginning pickleball course where students will develop basic skills to play the game of pickleball. Instruction will focus includes on overhead and underhand groundstrokes, volleys, serves, racket grips, and footwork. Students will learn court markings, rules, and fundamental strategies used in both singles and doubles play. Fundamental principles of physical fitness and their impact on life-long health and wellness will also be taught. (CSU/UC) (AA/AS-7B)

ES-061B
Intermediate Pickleball **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 061A or equivalent
1.0 hours lecture, 1.0 hours laboratory
This is a continuation of ES 061A with an emphasis on instructing the intermediate skills levels of pickleball. Instructional focus includes the overhead, underhand, forehand, and backhand groundstrokes, volleys, drop, cut, and lob serves. Students will learn intermediate strategies and rules used in singles and doubles and cut-throat play. Fundamental principles of physical fitness and their impact on life-long health and wellness will also be taught. (CSU/UC) (AA/AS-7B)

ES-061C
Advanced Pickleball **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 061B or equivalent
1.0 hours lecture, 1.0 hours laboratory
This is a continuation of ES 061B with an emphasis on instructing the advanced skills levels of pickleball. Instructional focus includes the overhead, underhand, forehand, and backhand groundstrokes, volleys, drop, cut, lob serves, and overhand smash and drop shots. Students will learn advanced strategies and rules used in singles and doubles and cut throat play. Fundamental principles of physical fitness and their impact on lifelong health and wellness will also be taught. (CSU/UC) (AA/AS-7B)

ES-076A
Beginning Tennis **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Presentation of the official singles and doubles games including basic strokes, rules, strategy and etiquette. (CSU/UC) (AA/AS-7B)

ES-076B
Intermediate Tennis **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 076A or equivalent
1.0 hours lecture, 1.0 hours laboratory
Continuation of ES 076A with an emphasis on individual stroke analysis, playing strategy and match play, singles and doubles. (CSU/UC) (AA/AS-7B)

ES-076C
Advanced Tennis **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 076B or equivalent
1.0 hours lecture, 1.0 hours laboratory
Continuation of ES 076B with an emphasis on advanced techniques, strategy and match play for singles, doubles and mixed doubles. (CSU/UC) (AA/AS-7B)

ES-121
Introduction to Sport, Exercise, and Performance Psychology **3 UNITS**
3.0 hours lecture
This course provides an introduction to the theoretical and practical application of psychological factors associated with sport, exercise, and performance. Topics include historical and theoretical perspectives, current theories and research in cognitive, behavioral, and social-psychological factors related to concepts of understanding athlete, coach, and spectator behavior in the sport setting. Examination of factors and social constructs influencing exercise participation, management of unhealthy behaviors, and adherence to programs focused on therapeutic benefits that help enhance overall health. Outcomes associated with performance, techniques for optimizing performance, youth, aging, and gender issues, and applications in a variety of career settings will be discussed. Also listed as PSY 121. Not open to students with credit in PSY 121. (CSU/UC) (AA/AS-4)

ES-155A
Beginning Basketball **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Instruction and practice in the basic skills of basketball with emphasis on individual skill development and team play. Includes the fundamental principles of physical fitness and their impact on lifelong health and wellness. (CSU/UC) (AA/AS-7B)

ES-155B
Intermediate Basketball **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 155A or equivalent
1.0 hours lecture, 1.0 hours laboratory
Instruction and practice in intermediate basketball skills with emphasis on advancing individual technique, enhancing team play, and applying game strategies. Includes the fundamental principles of physical fitness and their impact on lifelong health and wellness. (CSU/UC) (AA/AS-7B)

ES-155C
Advanced Basketball **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 155B or equivalent
1.0 hours lecture, 1.0 hours laboratory
Instruction and practice in advanced basketball skills with emphasis on refining individual technique, executing complex team play, and applying advanced offensive and defensive tactics and strategies. Includes the fundamental principles of physical fitness and their impact on lifelong health and wellness. (CSU/UC) (AA/AS-7B)

ES-170A
Beginning Soccer **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Basic skills and strategy of soccer with an emphasis on team play and individual skills. (CSU/UC) (AA/AS-7B)

ES-170B
Intermediate Soccer **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 170A or equivalent
1.0 hours lecture, 1.0 hours laboratory
Intermediate soccer skills and team play with an emphasis on techniques, team strategy, language and lore of the game of soccer. (CSU/UC) (AA/AS-7B)

ES-170C
Advanced Soccer **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 170B or equivalent
1.0 hours lecture, 1.0 hours laboratory
Advanced individual soccer skills and team play. Emphasizes techniques and team strategy. (CSU/UC) (AA/AS-7B)

ES-175A
Beginning Volleyball **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Competency development in the team sport of volleyball with an emphasis on individual techniques and team strategy. (CSU/UC) (AA/AS-7B)

ES-175B
Intermediate Volleyball **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 175A or equivalent
1.0 hours lecture, 1.0 hours laboratory
Continuation of ES 175A with emphasis on intermediate level play and strategy and four-person teams. (CSU/UC) (AA/AS-7B)

ES-175C
Advanced Volleyball **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 175B or equivalent
1.0 hours lecture, 1.0 hours laboratory
Continuation of ES 175B with emphasis on advanced play and strategy and four-person teams. (CSU/UC) (AA/AS-7B)

ES-180
Self Defense for Women **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Basic principles of practical personal protection for women, with emphasis on awareness and prevention of situations that may leave a person vulnerable to crime, especially rape. Physical, mental and verbal responses will be taught and practiced so students may develop the confidence to stand up and defend themselves if needed. Students will learn the fundamental principles of physical fitness and its impact on lifelong health and wellness. (CSU/UC) (AA/AS-7B)

ES-206
Intercollegiate Basketball **3 UNITS**
Prerequisite: Tryout
10.0 hours laboratory
Intercollegiate competition in the sport of basketball. Instruction in specific skills, performance techniques and strategies, as well as daily practice, development of physical fitness, team travel and competition against other collegiate institutions. Open to all students who wish to compete at the intercollegiate level. Athletic insurance fee is required. (CSU/UC) (AA/AS-7B)

ES-209
Intercollegiate Cross Country **3 UNITS**
Prerequisite: Tryout
10.0 hours laboratory
Intercollegiate competition in the sport of cross country running. Instruction in advanced training methods, race strategies, and performance techniques, as well as daily practice, development of physical fitness, team travel, and competition against other collegiate institutions. Open to all students who wish to compete at the intercollegiate level. Athletic insurance fee is required. (CSU/UC) (AA/AS-7B)

ES-213
Intercollegiate Golf **3 UNITS**
Prerequisite: Tryout
10.0 hours laboratory
Students participate in intercollegiate golf competition through structured practice, course play, and match performance. The course emphasizes technical skill development in all phases of the game, tactical decision-making, and adherence to USGA, CCCAA, and OEC rules. Students represent the college in scheduled events and engage in performance analysis, team collaboration, and academic accountability. Open to students who qualify through tryouts. Athletic insurance fee is required. (CSU/UC) (AA/AS-7B)

ES-218
Intercollegiate Soccer **3 UNITS**
Prerequisite: Tryout
10.0 hours laboratory
Intercollegiate competition in the sport of soccer. Instruction focuses on advanced skills, performance techniques, team strategies, and game tactics, along with daily practice and development of physical fitness. Students will also engage in team travel and competition against other collegiate institutions. Open to students with advanced soccer skills who wish to compete at the intercollegiate level. Athletic insurance fee is required. (CSU/UC) (AA/AS-7B)

ES-224
Intercollegiate Tennis **3 UNITS**
Prerequisite: Tryout
10.0 hours laboratory
Intercollegiate competition in the sport of tennis. Instruction in specific skills, performance techniques and strategies, as well as daily practice, development of physical fitness, team travel and competition against other collegiate institutions. Open to all students who wish to compete at the intercollegiate level. Athletic insurance fee is required. (CSU/UC) (AA/AS-7B)

ES-227
Intercollegiate Track **3 UNITS**
Prerequisite: Tryout
10.0 hours laboratory
Open to students with advanced track skills who wish to compete at the intercollegiate level. Athletic insurance fee is required. (CSU/UC) (AA/AS-7B)

ES-230
Intercollegiate Volleyball **3 UNITS**
Prerequisite: Tryout
10.0 hours laboratory
Intercollegiate competition in the sport of volleyball. Instruction in specific skills, performance techniques and strategies, as well as daily practice, development of physical fitness, team travel and competition against other collegiate institutions. Open to all students who wish to compete at the intercollegiate level. Athletic insurance fee is required. (CSU/UC) (AA/AS-7B)

ES-248
Conditioning for Intercollegiate Athletes **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Physical conditioning and mastery of the basic fundamentals of movement and skills necessary to reduce the risk of injury associated with athletic activity. Conditioning activities, games, and resistance exercises will be emphasized. This course is intended for intercollegiate athletes who are proficient in the fundamental skills and have knowledge of the basic rules of the competitive sport. Instruction is geared toward advanced techniques, strategies, injury prevention, conditioning, and team play. (CSU/UC)

ES-249
Competencies for Intercollegiate Athletes **2-4 UNITS**
Prerequisite: Recommendation of Intercollegiate Coach
1.0 hours lecture, 3.0 hours laboratory
This course is designed to prepare student athletes for intercollegiate competition at both the two and four year level, and to maintain athletic conditioning between seasons. It is intended for students who have demonstrated the potential (through performance or interview with respective coach) to succeed in intercollegiate athletics. Students will be required to participate in lab hours within the intercollegiate sport of their choice. Athletic insurance fee may be required upon enrollment. 1 hour lecture, 3 hours laboratory (2 units), 1 hour lecture, 6 hours laboratory (3 units), 1 hour lecture, 9 hours laboratory (4 units). (CSU/UC)

ES-250
Introduction to Kinesiology **3 UNITS**
3.0 hours lecture
Introduction to the interdisciplinary approach to the study of human movement. An overview of the concepts within and importance of the sub-disciplines in kinesiology will be discussed, along with career opportunities in the areas of teaching, coaching, allied health, dietetic, and fitness professions. (C-ID KIN 100) (CSU/UC)

ES-253
Physical Education in Elementary School **3 UNITS**
2.5 hours lecture, 1.5 hours laboratory
The statewide program in physical education for elementary schools forms the basis for this course. Includes the study of child development, personality development, analysis and practice of fundamental skills, selection of activities, organizational materials, and evaluation of teaching ability. (CSU)

ES-255
Care and Prevention of Athletic and Recreational Injuries **3 UNITS**
3.0 hours lecture, 1.0 hours laboratory
Designed to (1) provide a background for individuals interested in an athletic training career, (2) develop an understanding of athletic injuries in terms of prevention, recognition, evaluation, treatment, first aid and emergency care for coaches and/or teachers in athletic settings, and (3) provide athletes with an understanding of how to manage their own injuries and methods of prevention. (CSU/UC)

ES-264
Analysis and Theory of Intercollegiate Sport **1 UNITS**
3.0 hours laboratory
Students will analyze intercollegiate level theories, techniques, and strategies involved with performance of intercollegiate sports. Students will engage in video and digital analysis, data and statistical analysis, skill and performance evaluation, and a deeper understanding of sports related philosophies. (CSU)

ES-271
Fitness Walking with Children **1 UNITS**
1.0 hours lecture
Instruction in planning and implementing a walking program for children in a variety of settings. Lifelong fitness activities and walking as a form of appropriate and challenging exercise will be emphasized. (CSU)

ES-272
Issues in Childhood Obesity **1 UNITS**
1.0 hours lecture
Survey of current knowledge relating to the cause and prevention of childhood obesity. Content will include suggested physical activity planning and nutrition guidelines, as well as historically relevant trends in regards to childhood obesity, diet and physical activity. (CSU)

ES-280
Yoga Teacher Training Foundation **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 028A or equivalent, or concurrent enrollment
2.0 hours lecture, 3.0 hours laboratory
This course introduces the foundational concepts of teaching yoga to beginners and supports the deepening of one's personal practice. Students explore body mechanics, anatomy, alignment principles, and breathing techniques, specifically in the context of instructing and performing basic yoga poses. Additional topics including the history and philosophy of yoga, Sanskrit basics, asana classification, and types of yoga are covered with a commitment to making yoga inclusive and accessible to all. (CSU)

ES-281
Yoga Teacher Training Cultivation **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in ES 280 or equivalent, or concurrent enrollment
2.0 hours lecture, 3.0 hours laboratory
This course provides students with the tools and experience to design and teach intelligently sequenced inclusive, and thematically cohesive yoga classes for all levels. Emphasis is placed on verbal clarity, adaptive teaching methods, and integration of breathwork, meditation, and yogic philosophy into class design. Topics include advanced sequencing, subtle body anatomy, pranayama, meditation, alignment-based modifications, and professional ethics in yoga teaching. Students refine communication skills, deepen self-awareness, and cultivate confidence to lead yoga classes safely and effectively. (CSU)

Intercollegiate Athletics

Intercollegiate athletics courses, ES 206, 209, 213, 218, 224, 227, 230, 248, 249, are repeatable.

Gender Studies (GEND)

GEND-116
Introduction to Women's Studies **3 UNITS**
3.0 hours lecture
This is an interdisciplinary course utilizing social science methods and approaches to examine women's roles and experiences related to a range of issues affecting women of diverse backgrounds. Students will explore the history of women's rights movements, women's roles in social movements, feminisms, and Women's Studies through a variety of topics/concepts such as: social construction of gender, systemic inequality, gender and the body, representation in media and culture, patriarchy, masculinity, health and reproductive justice, gender and violence, education, paid and unpaid labor, and family structures. Topics will be examined with an emphasis on how gender intersects with race, ethnicity, socio-economic status, sexuality, culture, dis/ability, age, religion, etc. (CSU/UC) (AA/AS-4, Cal-GETC-4)

GEND-117
Introduction to LGBTQ Studies **3 UNITS**
3.0 hours lecture
This interdisciplinary course introduces students to a broad range of historical and contemporary lesbian, gay, bisexual, transgender, queer, intersex and asexual (LGBTQIA+) issues in various contexts, including bio-medical, sociological, political, racial, and sexual. Topics include the politics, policy, and governance of LGBT issues; social movements and resistance; biological and environmental impacts on identity, equity, equality, and inclusion; privilege and disadvantage; queer activism; diverse experiences of gender and sexuality; and representations in literature, art, and popular culture. Topics will be examined with an emphasis on how sexual identity and gender identity intersect with race, ethnicity, socio-economic status, culture, dis/ability, age, religion, etc. (CSU/UC) (AA/AS-4, Cal-GETC-4)

GEND-119
Psychology of Gender **3 UNITS**
3.0 hours lecture
This course provides an in-depth exploration of the psychological experiences of people, with a focus on understanding how sex and gender intersect with race, ethnicity, sexuality, class, size, ability, and other identity factors. Students will engage with a comprehensive examination of the biological, historical, social, and cultural factors that influence the lives, identities, and experiences of people with diverse backgrounds. Through an intersectional lens, the course will analyze how these factors shape personalities, behaviors, worldviews, perceptions, and self-concepts. The course will focus on a variety of topics within the broader social and cultural context, including but not limited to: gender-role stereotypes; socialization practices; biological understandings of sex; as well as issues related to health, work, violence, reproduction, and caregiving. Also listed as PSY 119. Not open to students with credit in PSY 119. (CSU/UC) (AA/AS-4)

Geography (GEOG)

GEOG-106
World Regional Geography **3 UNITS**
3.0 hours lecture
World regional geography studies the overarching principles of human geography as applied to the major geographic regions of the world including Africa, the Middle East, South and East Asia, Australia, Europe and the Americas. Regional analysis will include: language, religion and ethnicity; population, land use and settlement patterns; economic, social and political systems; urban and environmental relationships; and the effects of technology and globalization in a rapidly changing world. (C-ID GEOG 125) (CSU/UC) (AA/AS-4, Cal-GETC-4)

GEOG-120
Physical Geography: Earth Systems **3 UNITS**
3.0 hours lecture
Physical geography is the study of the patterns and processes that underlie the fundamental nature and dynamics of the physical world. Topics will be investigated from a systems perspective, with particular attention to the spatial relationships among the atmosphere, hydrosphere, lithosphere and biosphere. Global, regional and local environmental concerns will be discussed as relevant to course topics. (C-ID GEOG 110) (CSU/UC) (AA/AS-5, Cal-GETC-5A)

GEOG-121
Physical Geography: Earth Systems Laboratory **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in GEOG 120 or GEOL 104 or equivalent or concurrent enrollment in either course
3.0 hours laboratory
This course is designed to explore the Earth's physical environment, complementing either the physical geography lecture course (GEOG 120) or the Earth Science lecture course (GEOL 104) through practical applications of materials covered in these courses. This laboratory course enhances the observational and analytical skills that are vital to understanding Earth's major physical and chemical systems including atmospheric, hydrospheric, lithospheric and biospheric processes and the Earth's place within the Solar System. Exercises will utilize the methods of scientific inquiry to explore the Geographic Grid, Earth-Sun relationships; weather and climate; the rock cycle; plate tectonics, including faulting, earthquakes, hot spot volcanism and plate boundary dynamics; erosional and depositional environments; landform genesis, identification and geomorphic change; soil and vegetation distributions and habitat analysis. Students gain experience with map interpretation/analysis, unit conversions and dimensional analysis, field work using GPS, compass, clinometer, and other specialized equipment. Special attention is given to the unique local setting of San Diego County especially as exhibited in the Cuyamaca College Nature Preserve where field experiences are incorporated into laboratory exercises on a regular basis. (C-ID GEOG 111, GEOL 120L) (CSU/UC) (AA/AS-5, Cal-GETC-5C)

GEOG-122
Regional Field Studies in Physical Geography and Geology of Desert Environments **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in GEOG 120, GEOL 104, or GEOL 110 or concurrent enrollment
1.0 hours lecture, 1.0 hours laboratory
Are you interested in science and enjoy spending time outdoors? Explore the desert and learn about regional geology and geography with this field studies course! Regional Field Studies in Physical Geography and Geology of Desert Environments provides focused experience in geological and geographical field studies of desert environments in California and western North America. This course emphasizes use of the scientific process, observation, and interpretation of geologic and geographic phenomena in desert environments through direct experience in a field setting. This course centers around multi-day weekend field trips to desert environments in addition to on-campus meetings prior to and immediately following the field trips. Students must supply their own camping gear (sleeping bag, tent, etc.) and attend all class meetings and field trips. Also listed as GEOL 122. Not open to students with credit in GEOL 122. (C-ID GEOG 160) (CSU)

GEOG-130
Human Geography: The Cultural Landscape **3 UNITS**
3.0 hours lecture
Introduction to the study of the dynamics and complex relationships between the Earth's people and the ever-changing world in which they live. Special attention given to the historical role of the human-environment relationship, as well as the influences of language, religion, and other cultural factors in shaping the world's many cultures. Topics investigated on a global, regional and local scale include: origin and diffusion of the world's major languages and religions; population and settlement patterns; political and economic systems; methods of livelihood; the role of technology in our rapidly changing world. Emphasis is on human-environment relations and understanding and appreciation of our diverse multicultural world. Local field trips link course materials to real-world phenomena. (C-ID GEOG 120) (CSU/UC) (AA/AS-4, Cal-GETC-4)

Geology (GEOL)

GEOL-104
Earth Science **3 UNITS**
3.0 hours lecture
This physical science course studies the patterns and processes that define Earth's major physical systems, the basic energy and material flows by which these systems operate, and the comparative place of our planet within the larger solar system. Topics will be investigated at global, regional and local scales and will provide a general synthesis of the disciplines of astronomy, geology, physical geography, meteorology and oceanography. Environmental disturbance and climate change will be addressed within the context of the topics described above. (C-ID GEOL 120) (CSU/UC) (AA/AS-5, Cal-GETC-5A)

GEOL-110
Planet Earth **3 UNITS**
3.0 hours lecture
Introductory physical science course investigating the composition of the earth and the geologic processes by which it formed. Emphasis is placed on the unifying theory of plate tectonics and the associated activities of volcanism, earthquakes, and mountain building. Topics include crystals, minerals and rocks, their distribution within the planet, and the evolution of the earth across deep time. The sculpturing of the surface of the planet by wind, waves, streams, glaciers and landslides will also be considered. (C-ID GEOL 100) (CSU/UC) (AA/AS-5, Cal-GETC-5A)

GEOL-111
Planet Earth Laboratory **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in GEOL 110 or equivalent or concurrent enrollment
3.0 hours laboratory
Physical science laboratory course to accompany and augment GEOL 110. Includes laboratory and field investigations of the Earth, emphasizing hands-on experience with minerals, rocks and landforms, as well as topographic and geologic maps. (C-ID GEOL 100L) (CSU/UC) (AA/AS-5, Cal-GETC-5C)

GEOL-122
Regional Field Studies in Physical Geography and Geology of Desert Environments **1 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in GEOG 120, GEOL 104, or GEOL 110 or concurrent enrollment
1.0 hours lecture, 1.0 hours laboratory
Are you interested in science and enjoy spending time outdoors? Explore the desert and learn about regional geology and geography with this field studies course! Regional Field Studies in Physical Geography and Geology of Desert Environments provides focused experience in geological and geographical field studies of desert environments in California and western North America. This course emphasizes use of the scientific process, observation, and interpretation of geologic and geographic phenomena in desert environments through direct experience in a field setting. This course centers around multi-day weekend field trips to desert environments in addition to on-campus meetings prior to and immediately following the field trips. Students must supply their own camping gear (sleeping bag, tent, etc.) and attend all class meetings and field trips. Also listed as GEOG 122. Not open to students with credit in GEOG 122. (CSU)

Graphic Design (GD)

GD-105
Fundamentals of Digital Media **3 UNITS**
Recommended Preparation: Basic computer and file management skills
2.0 hours lecture, 3.0 hours laboratory
This course explores the digital software used for graphic design, multimedia, and web design, specifically the use of vector (Adobe Illustrator) and raster images (Adobe Photoshop). Using the design process, students will create projects that require the use and comprehension of various file formats and color modes used in print and web design. Input devices such as digital cameras and scanners will be used to enhance projects. The elements of art and principles of design will be introduced as students develop aesthetic compositional skills. (CSU/UC)

GD-110
Graphic Design Principles **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in GD 105 or equivalent or two years verifiable industry experience
Recommended Preparation: "C" grade or higher or "Pass" in ART 124 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Explores the fundamental concepts of graphic design and visual communication. Basic concepts, principles and elements of design are reinforced through creative problem solving. Text and visual elements such as photos and illustrations are integrated to create appropriate and aesthetic solutions to print graphics problems. Students will investigate career options and begin portfolio development. (C-ID ARTS 250) (CSU)

GD-115
Introduction to Multimedia **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in GD 105 or equivalent
Recommended Preparation: "C" grade or higher or "Pass" in GD 110 or equivalent
2.0 hours lecture, 3.0 hours laboratory
This intensive introductory course is designed to teach foundational skills for students who have minimal or no experience in creating multimedia news packages. A hands-on introduction on how to use video, photography, data and other elements to successfully create effective visual and multimedia stories. (CSU/UC)

GD-120
User Experience Design **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in GD 105 or equivalent
Recommended Preparation: "C" grade or higher or "Pass" in GD 110 or equivalent
2.0 hours lecture, 3.0 hours laboratory
This introductory course is designed to equip you with a broad understanding of user experience (UX) and covers the foundations of User Experience Design and process including; user journeys, prototypes, information architecture, wireframes and prototypes. We will also be considering the critical role user experience plays in allowing businesses to access their target audience and how organizations can use user experience to increase customer engagement and revenue as well as reducing costs. (CSU)

GD-125
Typography **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in GD 110 or equivalent
2.0 hours lecture, 3.0 hours laboratory
This course explores the fundamental nature of typography as a reflection of society. Characters are examined as art forms and as carriers of language and ideas. Technical aspects of typography will be considered including function and production. Letterforms will be designed using both traditional and digital processes with an emphasis on developing a professional portfolio. (CSU)

GD-126
Adobe Photoshop Digital Imaging **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in GD 105 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Explores capturing, digitizing and editing images. Students will learn to digitize images and use industry standard software (Adobe Photoshop) to edit, manipulate, retouch, enhance and composite digital images. Explores digital workflows, color management, digital effects, and output methods used to achieve the best possible output from digital image files. Emphasis is on meeting aesthetic and technical requirements of the commercial arts and graphic design industry. (CSU)

GD-129
Page Layout **3 UNITS**
Prerequisite: Understanding and experience with digital image types and composition
Recommended Preparation: "C" grade or higher or "Pass" in GD 110 or equivalent
2.0 hours lecture, 3.0 hours laboratory
This course emphasizes the aesthetic and functional organization of text, charts, graphs, line art, illustrations and photos in multiple page documents for print and electronic applications. Uses traditional and digital processes to develop creative thumbnails, roughs, and comprehensive layouts. Emphasis is on preparing text and images for electronic pre-press and for selecting printing options as well as for ebook and electronic publishing. Students will develop work for a professional portfolio. (CSU)

GD-130
Professional Business Practices **3 UNITS**
Recommended Preparation: Student should have a substantial body of completed design or web projects prior to enrollment in this class
3.0 hours lecture
This course emphasizes professional business practices used in the graphic design industry, including design studios, agencies and self-employment. Learn how to create a resume, market a portfolio, acquire clients, and set fees. Students will refine their design capabilities using text and images while learning how to perform as business professionals. (CSU)

GD-210
Professional Digital Photography I **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in GD 126 or equivalent, or experience using industry standard image editing software.
2.0 hours lecture, 3.0 hours laboratory
Practical course intended for anyone interested in traditional photographic methods as they apply to digital photography. Students will learn to properly light, compose, expose, adjust, manipulate and print digital photographs. Explores advanced camera settings and file editing with Adobe Photoshop. Assignments will emphasize skills needed to produce high quality images for print and web display. (CSU)

GD-211
Professional Digital Photography II **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in GD 210 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Focuses on advanced photographic and digital imaging techniques, expanding on knowledge and skills acquired in GD 126 and 210. Covers various applications of commercial photography including portraiture, tabletop, still life and photo-illustration. Unlike most fine art oriented photography classes, this course will present aesthetic and technical aspects of photography as they pertain to graphic communication and commercial art. (CSU)

GD-212
Professional Digital Photography III **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in GD 211 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Project based course concentrates on advanced photographic shooting and post processing techniques, with an introduction to photo-illustration. Students will learn to refine compositional and substantive aspects of photography as a means of communication. Course will cover a variety of tools and techniques for image enhancement including high dynamic range imagery (HDR), exposure compositing, and color management in a digital workflow. (CSU)

GD-217
Web Graphics **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CIS 211 or equivalent or basic computer and Internet skills and ability to create and upload a simple website, GD 126 or equivalent or ability to use Adobe Photoshop to create digital images
2.0 hours lecture, 3.0 hours laboratory
Focuses on the creation of attractive, usable web interfaces and graphic elements. Students will use Photoshop to design and develop common web design elements as they explore information design, screen design and navigation design. (CSU/UC)

GD-222
Web Animation **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in CIS 211 or equivalent or basic computer and Internet skills and ability to create and upload a simple website
2.0 hours lecture, 3.0 hours laboratory
Covers design, development and implementation of web-based animation using animation software. Students will create common web animation projects such as advertisements and web interfaces. (CSU)

GD-223
Advanced Web Animation **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in GD 222 or equivalent
Recommended Preparation: "C" grade or higher or "Pass" in CIS 211 or equivalent or ability to create and upload a simple website
2.0 hours lecture, 3.0 hours laboratory
Develop interactive, rich media web animation applications. Includes principles of interaction and content design, ActionScript programming, and techniques to effectively incorporate animation, sound and graphics. (CSU)

GD-225
Digital Illustration **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in GD 110 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Uses vector and raster image software to create digital illustrations. Applies design principles and computer technology to create graphic images in an aesthetic composition. Students will produce artwork based on contemporary illustration styles. Applicable for fine art, graphic design, and interactive design. (CSU/UC)

GD-230
Graphic Design Work Experience **1-4 UNITS**
Prerequisite: 12 units in Graphic Design courses related to field in which work experience is sought and current resume highlighting graphic design experience and course-related study
Work experience at a designated industry site in a graphic design occupational category for students seeking job experience in graphic design. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of 12 units. 54 hours paid or unpaid work experience per unit, 1-4 units. (CSU)

Health Education (HED)

HED-105
Health Education for Teachers **1 UNITS**
1.0 hours lecture
Designed for multiple or single subject teacher candidates. Provides introductory knowledge of broad health-related issues relevant to K-12 curriculum. Topics include primary and secondary school health education curriculum design, basic legal issues of health education in California, discussion of community resources, behavior modification techniques, stress management, benefits of regular exercise, nutrition and eating disorders, disease prevention, childhood obesity, sexually transmitted diseases, contraception, substance abuse including alcohol and tobacco, safety in the home and school, and violence including gang and domestic violence. Meets the state of California health education requirement for the K-12 teaching credential. (CSU)

HED-120
Personal Health and Lifestyles **3 UNITS**
3.0 hours lecture
This course focuses on the exploration of major health issues and behaviors in the various dimensions of health. Emphasis is placed on individual responsibility for personal health and the promotion of informed, positive health behaviors. Topics include nutrition, exercise, weight control, mental health, stress management, violence, substance abuse, reproductive health, disease prevention, aging, healthcare, and environmental hazards and safety. (C-ID PH 100) (CSU/UC) (AA/AS-4,7A)

HED-201
Introduction to Public Health **3 UNITS**
3.0 hours lecture
This course provides an introduction to the discipline of Public Health. Students will gain an understanding of the basic concepts and terminologies of public health, and the history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions and institutions, and an in-depth examination of the core public health disciplines is covered. Topics of the discipline include the epidemiology of infectious and chronic disease; prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations; community organizing and health promotion programming; environmental health and safety; global health; and healthcare policy and management. (C-ID PH 101) (CSU/UC) (AA/AS-4,7A, Cal-GETC-4)

HED-202
Health Professions and Organizations **3 UNITS**
3.0 hours lecture
A review of health organizations and agencies that operate locally, regionally, nationally and internationally. Information regarding potential careers in medicine, allied health, and public health is included. (C-ID PH 105) (CSU)

HED-203
Substance Abuse and Public Health **3 UNITS**
3.0 hours lecture
This course provides an overview of the epidemiology and toxicology of substance abuse and its relevance to personal and public health. Students will be introduced to the concept of substance abuse and dependence, the definition of licit and illicit drugs, and the pharmacologic, neurologic and physiologic effects of selected substances on the human brain. Political, social and economic factors involved in the supply and demand for drugs will be discussed. Epidemiologic data on the prevalence, incidence, and trends of smoking, alcohol, prescription and other drug dependencies in the U.S. will be covered, as well as risk factors associated with the use and abuse of these substances. Current options for recovery and a survey of local resources will be reviewed. (C-ID PH 103) (CSU/UC) (AA/AS-4,7A)

HED-204
Health and Social Justice **3 UNITS**
3.0 hours lecture
This course provides an introduction to the health inequities in the United States that stem from unequal living conditions. Students will explore how education, socioeconomic status, race and gender shape health epidemics and policy development. The basic knowledge and skills necessary for advocating for health and social justice will be theoretically demonstrated. (C-ID PH 102) (CSU/UC) (AA/AS-4, Cal-GETC-4)

HED-251
Healthy Lifestyles: Theory and Application **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
A combination of physical activity and lecture providing regular exercise to develop physical fitness and information about basic, sound nutrition as it pertains to weight control. Guidelines that promote lifetime exercise and a healthy lifestyle will be emphasized. (CSU) (AA/AS-4,7A)

History (HIST)

HIST-C1001
United States History to 1877 **3 UNITS**
3.0 hours lecture
This course is a historical survey of the United States, from Indigenous North America to the end of Reconstruction. The course also introduces students to historical reasoning skills. The course explores the origin and development of significant American institutions, ideals, constitutional features and various social, cultural, and ideological struggles. Formerly HIST 108. Not open to students with credit in HIST 108. (C-ID HIST 130) (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-C1002
United States History since 1865 **3 UNITS**
3.0 hours lecture
This course is a historical survey of the United States from the end of the Civil War to the present. The course also introduces students to historical reasoning skills. Students will explore the political, social, economic and cultural development of the United States, as well as modern American institutions, ideals, ideologies, and laws, including explorations of the U.S. and California constitutions and interactions between federal, state, and local governments. Formerly HIST 109. Not open to students with credit in HIST 109. (C-ID HIST 140) (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-100
Early World History **3 UNITS**
3.0 hours lecture
Examination of ancient to early-modern civilizations and the interconnections between diverse world societies to 1500. Included are Mesopotamia, Egypt, China, India, the classical West, early Islamic civilization, civilizations of Africa, and civilizations of the Americas and Oceania. (C-ID HIST 150) (CSU/UC) (AA/AS-3, Cal-GETC-3B,4)

HIST-101
Modern World History **3 UNITS**
3.0 hours lecture
Examination of the civilizations, societies and global interrelationships of the peoples of Africa, the Americas, Asia, Europe, and Oceania since 1500. (C-ID HIST 160) (CSU/UC) (AA/AS-3, Cal-GETC-3B,4)

HIST-105
Early Western Civilization **3 UNITS**
3.0 hours lecture
Survey of Mediterranean and European cultures, thought, and institutions from ancient times to 1650. Includes Greece, Rome, Medieval Europe, the Renaissance, and the Reformation. (C-ID HIST 170) (CSU/UC) (AA/AS-3, Cal-GETC-3B,4)

HIST-106
Modern Western Civilization **3 UNITS**
3.0 hours lecture
Survey of European cultures, thought and institutions from 1650 to the present. Includes Absolutism, Scientific Revolution, the Enlightenment, age of the French Revolution, nineteenth-century ideologies, imperialism, the world wars, the Cold War, and contemporary Europe. (C-ID HIST 180) (CSU/UC) (AA/AS-3, Cal-GETC-3B,4)

HIST-107
History of Race & Ethnicity in the United States **3 UNITS**
3.0 hours lecture
An introduction to the social, cultural, and historical experiences of racial and ethnic groups and their roles in shaping the United States. Focus will be on migration, colonization, racialization, discrimination, assimilation, social stratification, resistance and agency, liberation movements, and the intersection of racial, ethnic, gender, and sexual identities as they relate to African Americans, Asian Americans, Latinas/os/x, and Native Americans. Also listed as ETHN 107. Not open to students with credit in ETHN 107. (CSU/UC) (AA/AS-4,6, Cal-GETC-4,6)

HIST-114
Comparative History of the Early Americas **3 UNITS**
3.0 hours lecture
The Americas (North and South America, including the Caribbean) from pre-contact to the nineteenth century. Emphasis on ancient American civilizations and the interactions among Native American, European, and African cultures in the formation of new nations. The social, political, and cultural developments of the early United States, Latin America, and Canada and their political systems. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-115
Comparative History of the Modern Americas **3 UNITS**
3.0 hours lecture
A survey of the political, social, economic, and cultural development of the modern Americas. Emphasis on interactions among Native American, European, and African American cultures and the social, political, and economic transformations of the modern United States, Latin America and Canada from the early nineteenth century to the present. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-118
U.S. History: Chicano/Chicana Perspectives I **3 UNITS**
3.0 hours lecture
Historical survey of Mexican Americans in the United States in which attention is given to social, political and economic background, with an emphasis on the origins of basic American institutions and ideals. Particular emphasis on the development of Spanish-speaking peoples' economic, social, political, and racialized experience in the United States, especially in the Southwest from the pre-contact period to the Mexican American War. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-119
U.S. History: Chicano/Chicana Perspectives II **3 UNITS**
3.0 hours lecture
Historical survey of Mexican Americans in the United States in which attention is given to the social, political, and economic background, including explorations of the U.S. and California constitutions and interactions between federal, state, and local governments. Particular emphasis on the economic, social and political experiences of Mexican Americans and Latinas/os/x in the United States, including migration, colonization, racialization, discrimination, assimilation, social stratification, liberation movements, and the intersection of racial, ethnic, gender, sexual identities, especially in the Southwest from the Mexican-American War to the present. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-122
Women in Early American History **3 UNITS**
3.0 hours lecture
Survey of the social, political, cultural, economic and intellectual development of women in America from pre-contact to 1877 in the entire geographic area that is now the United States. Women's experiences are placed in the context of the origins of American institutions and ideals. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-123
Women in Modern American History **3 UNITS**
3.0 hours lecture
Survey of the social, political, cultural, economic and intellectual development of women in America from 1877 to the present in the entire area that is now the United States. Women's experiences are examined in the context of evolving American institutions. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-124
History of California **3 UNITS**
3.0 hours lecture
Survey of political, social and economic development of the State of California from pre-contact Native Americans, Spanish explorations and Mexican California to the present. Emphasis upon European exploration and interaction with California's Native Americans, Spanish colonization, Mexican California, statehood, late 19th century, pre-WWI Progressive Era, 1910s and 1920s, Depression Era, WWII, Post-WWII era, 1960s to the 1990s, and early 21st century. Unit of study in California state and local government is included. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-128
Kumeyaay History I: Precontact - 1845 **3 UNITS**
3.0 hours lecture
Historical survey of the Kumeyaay Nation from prehistoric times to 1845. Focus will be on Kumeyaay perspectives of Kumeyaay and non-Kumeyaay cultures; Kumeyaay oral history as it relates to the Creation Story, bird songs, ceremonies, religion and peon games; tribal sovereignty; sociopolitical clan structures; and the evolution of Kumeyaay leadership. Special emphasis will be given to the health and morbidity of indigenous populations and their labor in relation to the Mission San Diego de Alcalá and historic ranchos in San Diego County. Also listed as KUMY 128. Not open to students with credit in KUMY 128. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-129
Kumeyaay History II: 1846 - Present **3 UNITS**
3.0 hours lecture
Historical survey of the Kumeyaay Nation from 1846 to the present. Focus will be on Kumeyaay perspectives of Kumeyaay and non-Kumeyaay cultures, creation of Kumeyaay reservations, Mission Indian Federation, Public Law 83-280, Indian self-determination, Indian Gaming Regulatory Act, contemporary tribal governments, landmark Indian Gaming court cases, and an overview of laws pertaining to Native Americans in the United States. Special emphasis will be given to contemporary issues affecting the Kumeyaay Nation and Kumeyaay tribal governments, including socioeconomic deficits, tribal sovereignty, blood quantum, tribal enrollment, demographic challenges, language loss and acquisition, historical trauma, and the growing equity gaps among tribes without casinos. Also listed as KUMY 129. Not open to students with credit in KUMY 129. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-130
U.S. History and Cultures: Native American Perspectives I **3 UNITS**
3.0 hours lecture
This course covers the social, political, cultural, economic, and intellectual history of indigenous groups in North America from pre-history to 1850. Areas of focus include: Native American perspectives of native and non-native cultures, the influence of Native Americans on the Federal Constitution and the U.S. political system, the impact of legislation on Native Americans, and Native American resistance and adaptability in response to land encroachment, racial and ethnic discrimination, and assimilation strategies. Also listed as ETHN 130. Not open to students with credit in ETHN 130. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-131
U.S. History and Cultures: Native American Perspectives II **3 UNITS**
3.0 hours lecture
This course covers the social, political, cultural, economic, and intellectual history of indigenous groups in North America from 1850 to the present. Areas of focus include: Native American perspectives of native and non-native cultures, the portrayal and influence of Native Americans in popular culture, the influence of Native Americans on the California State Constitution and government, the impact of State and Federal legislation on Native Americans, and Native American agency and resistance movements in the struggle for civil and political rights and indigenous sovereignty. Also listed as ETHN 131. Not open to students with credit in ETHN 131. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-148
The Modern Middle East **3 UNITS**
3.0 hours lecture
A historical survey exploring the history of the modern Middle East. The course includes background material on the origin and spread of Islam, Islamic dynasties and civilizations. Major emphasis on the Ottoman Empire, the colonial era, rise of 20th century independent nation-states, creation of Israel and the Arab-Israeli conflict, 20th and 21st-century wars and conflicts, famous political/religious leaders, intellectual/scientific accomplishments, and artistic/literary works. (CSU/UC) (AA/AS-3, Cal-GETC-3B,4)

HIST-157
History Through Comics **3 UNITS**
3.0 hours lecture
This course studies history through sequential art and images, comics, and graphic novels, looking at Paleolithic cave paintings, Roman graffiti, Persian bas-reliefs, Mexican murals, and more, with a focus on 20th and 21st-century comics and graphic novels. Topics explored through comics may include: social justice, identity, love, war, discrimination, genocide, hope, resistance, environmental justice, and more. Students will use sequential art and comics as primary and secondary sources, learning how sequential art and comics reflect the concerns and realities of particular times, places, and people. (CSU/UC) (AA/AS-3, Cal-GETC-3A)

HIST-180
U.S. History: Black Perspectives I **3 UNITS**
3.0 hours lecture
United States history with an emphasis on social, economic, political and cultural experiences of Black people. Traces the development of African American history from African origins through the period of Reconstruction, with a focus on agency, resistance, self-determination, and liberation. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-181
U.S. History: Black Perspectives II **3 UNITS**
3.0 hours lecture
Examination of significant aspects of United States history from the aftermath of the Civil War to the present, including explorations of the U.S. and California constitutions and interactions between federal, state, and local governments. Emphasis is on the socio-economic, political, and cultural experiences of African Americans in the United States from Reconstruction to the present, with a focus on agency, resistance, self-determination, and liberation. (CSU/UC) (AA/AS-4, Cal-GETC-4)

HIST-193
Academic and Career Opportunities in History & Humanities **1 UNITS**
1.0 hours lecture
This class provides students with an overview of career options in the fields of history and humanities and will provide opportunities to determine career interest and to develop career-related resources that will help them be successful in the workplace. Students will identify career-related strengths and interests while learning about career options in history, humanities, and related fields. Recommended after completion of fifteen (15) units. Pass/ No Pass only. Also listed as HUM 193. Not open to students with credit in HUM 193. (CSU)

HIST-194
Internships in History **1 UNITS**
This class provides students an opportunity to explore options and careers related to the field of history while gaining valuable work experience and expanding their citizenship consciousness. This course includes placement in a community-based historical site, archives, museum, institute, research library, or with K-12 history/social studies students. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of 12 units. 54 hours paid or unpaid work experience per unit, 1 unit. (CSU)

HIST-275
Historical Period **3 UNITS**
3.0 hours lecture
In-depth study of an historical period. Reading, discussion, lecture and instructional media focuses on the forces contributing to the creation of the material studied and on the place of that material in relation to other disciplines in the humanities. (CSU/UC) (Cal-GETC-4)

HIST-276
Geographical Area **3 UNITS**
3.0 hours lecture
In-depth study of a geographical area. Reading, discussion, lecture and instructional media focuses on the forces contributing to the creation of the material studied and on the place of that material in relation to other disciplines in the humanities. (CSU/UC) (Cal-GETC-4)

HIST-277
Historical Theme **3 UNITS**
3.0 hours lecture
In-depth study of an historical theme. Reading, discussion, lecture and instructional media focuses on the forces contributing to the creation of the material studied and on the place of that material in relation to other disciplines in the humanities. (CSU/UC) (Cal-GETC-4)

Humanities (HUM)

HUM-110
Principles of the Humanities **3 UNITS**
3.0 hours lecture
Humanities of the world explored through film and television, music, dance, graphic novels, writing, photography, handicrafts (i.e. weaving, pottery, quilting, etc.), architecture, food, philosophy, etc. Focus will be on the forms of cultural expression produced by a variety of diverse artists and on the context in which they were produced; will include present-day creative forms of expression. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

HUM-111
Culture, Art & Ideas of the United States **3 UNITS**
3.0 hours lecture
Humanities of the United States explored through film and television, music, dance, graphic novels, writing, photography, handicrafts (i.e. weaving, pottery, quilting, etc.), architecture, food, philosophy, and social institutions. Focus will be on the experiences and contributions of African Americans, Asian Americans, Latinas/os/x, Native Americans, and Middle Eastern Americans, with an emphasis on discrimination, social stratification, intersectionality, resistance, and liberation movements. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

HUM-115
Arts & Culture of San Diego **3 UNITS**
3.0 hours lecture
In this course students will explore San Diego's diverse history, art, and culture through the study of murals, architecture, sculpture, music, film, photography, literature, theater, significant cultural and historical sites, and more, as well as how these connect to the broader context of world culture. Trips to various cultural sites are a required component of this class, for example: Chicano Park, Sycuan Cultural Resource Center and Museum, Balboa Park, Centro Cultural de la Raza, Old Globe Theatre, WorldBeat Cultural Center, San Diego Museum of Art, Copley Symphony Hall, Gaslamp District, etc. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

HUM-116
Kumeyaay Arts and Culture I **3 UNITS**
3.0 hours lecture
This course is a seasonal survey of arts and culture of the Kumeyaay Nation in what is now commonly known as San Diego and Imperial Counties and Baja California. Students will study Kumeyaay songs and stories, dance, games, pottery, philosophy, spiritual beliefs and traditions, and the various uses of winter and spring plant resources. Guest lectures by Kumeyaay experts will be integrated into the course. Field trips to various cultural sites and events are a required component of this class. Also listed as KUMY 116. Not open to students with credit in KUMY 116. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

HUM-117
Kumeyaay Arts and Culture II **3 UNITS**
3.0 hours lecture
This course is a seasonal survey of arts and culture of the Kumeyaay Nation in what is now commonly known as San Diego and Imperial Counties and Baja California. Students will study Kumeyaay uses of summer and fall plant resources, and participate in the harvest and construction of Tule boats, e`waa house, hunting and fishing tools, various types of baskets, and clothing and jewelry. Guest lectures by Kumeyaay experts will be integrated into the course. Field trips to various cultural sites and events are a required component of this class. Also listed as KUMY 117. Not open to students with credit in KUMY 117. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

HUM-118
Introduction to Kumeyaay Basketry & Pottery **3 UNITS**
3.0 hours lecture
An introductory course to teach the traditional Kumeyaay process of creating juncus baskets and pottery. Students will learn gathering, material processing, and the cultural importance and uses of various basketry patterns and pottery styles and types. Field trips to various cultural sites for gathering purposes are a required component of this class. Also listed as KUMY 118. Not open to students with credit in KUMY 118. (CSU/UC) (AA/AS-3)

HUM-140
Humanities of the Americas **3 UNITS**
3.0 hours lecture
Integrated exploration of broadly representative examples of literature, philosophy, drama, music, visual art and architecture of the Americas-the geographical scope of which will include the United States, Canada, the Caribbean, and Latin America. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

HUM-155
World Mythology through the Humanities **3 UNITS**
3.0 hours lecture
Exploration of world mythologies through broader consideration of their place within the humanities. Students will examine a variety of myths, legends, folklore, and fairy tales, as well as relevant themes, symbols, archetypes, etc. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

HUM-193
Academic and Career Opportunities in History & Humanities **1 UNITS**
1.0 hours lecture
This class provides students with an overview of career options in the fields of history and humanities and will provide opportunities to determine career interest and to develop career-related resources that will help them be successful in the workplace. Students will identify career-related strengths and interests while learning about career options in history, humanities, and related fields. Recommended after completion of fifteen (15) units. Pass/ No Pass only. Also listed as HIST 193. Not open to students with credit in HIST 193. (CSU)

HUM-194
Internships in Humanities **1 UNITS**
This class provides students an opportunity to explore options and careers related to the field of humanities while gaining valuable work experience and expanding their citizenship consciousness. This course includes placement in a community-based organization related to art, music, dance, theater, etc.; museum; historical site or organization; archive; research library; or with K-12 art/music/literature/history/theater students. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of 12 units. 54 hours paid or unpaid work experience per unit, 1 unit. (CSU)

Interdisciplinary Studies (IS)

IS-198
Supervised Tutoring **0 UNITS**
162.0 hours laboratory
TBA hours (1 - 162 hours laboratory).This course uses a variety of educational tools to provide individualized and group support to assist students with credit course content, assignments, knowledge, skills, and processes while enrolled in another course. This course may be taken with different content. No fee/no credit course.

Kumeyaay Studies (KUMY)

KUMY-116
Kumeyaay Arts and Culture I **3 UNITS**
3.0 hours lecture
This course is a seasonal survey of arts and culture of the Kumeyaay Nation in what is now commonly known as San Diego and Imperial Counties and Baja California. Students will study Kumeyaay songs and stories, dance, games, pottery, philosophy, spiritual beliefs and traditions, and the various uses of winter and spring plant resources. Guest lectures by Kumeyaay experts will be integrated into the course. Field trips to various cultural sites and events are a required component of this class. Also listed as HUM 116. Not open to students with credit in HUM 116. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

KUMY-117
Kumeyaay Arts and Culture II **3 UNITS**
3.0 hours lecture
This course is a seasonal survey of arts and culture of the Kumeyaay Nation in what is now commonly known as San Diego and Imperial Counties and Baja California. Students will study Kumeyaay uses of summer and fall plant resources, and participate in the harvest and construction of Tule boats, e`waa house, hunting and fishing tools, various types of baskets, and clothing and jewelry. Guest lectures by Kumeyaay experts will be integrated into the course. Field trips to various cultural sites and events are a required component of this class. Also listed as HUM 117. Not open to students with credit in HUM 117. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

KUMY-118
Introduction to Kumeyaay Basketry & Pottery **3 UNITS**
3.0 hours lecture
An introductory course to teach the traditional Kumeyaay process of creating juncus baskets and pottery. Students will learn gathering, material processing, and the cultural importance and uses of various basketry patterns and pottery styles and types. Field trips to various cultural sites for gathering purposes are a required component of this class. Also listed as HUM 118. Not open to students with credit in HUM 118. (CSU/UC) (AA/AS-3)

KUMY-120
Kumeyaay Language I **4 UNITS**
4.0 hours lecture
Introduction to the Kumeyaay language and the culture of its speakers. Facilitates the practical application of the language in everyday oral communication at the beginning level. Since the focus is on basic communication skills, the class will be conducted in Kumeyaay as much as possible. While becoming familiar with the Kumeyaay speaking world, students will learn structures that will enable them to function in Kumeyaay in everyday contexts. (CSU/UC) (AA/AS-3)

KUMY-121
Kumeyaay Language II **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in KUMY 120 or equivalent
4.0 hours lecture
Continuation of KUMY 120. Students will continue to develop oral skills based on practical everyday situations and contexts. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

KUMY-128
Kumeyaay History I: Precontact - 1845 **3 UNITS**
3.0 hours lecture
Historical survey of the Kumeyaay Nation from prehistoric times to 1845. Focus will be on Kumeyaay perspectives of Kumeyaay and non-Kumeyaay cultures; Kumeyaay oral history as it relates to the Creation Story, bird songs, ceremonies, religion and peon games; tribal sovereignty; sociopolitical clan structures; and the evolution of Kumeyaay leadership. Special emphasis will be given to the health and morbidity of indigenous populations and their labor in relation to the Mission San Diego de Alcalá and historic ranchos in San Diego County. Also listed as HIST 128. Not open to students with credit in HIST 128. (CSU/UC) (AA/AS-4, Cal-GETC-4)

KUMY-129
Kumeyaay Hist II: 1846 - Present **3 UNITS**
3.0 hours lecture
Historical survey of the Kumeyaay Nation from 1846 to the present. Focus will be on Kumeyaay perspectives of Kumeyaay and non-Kumeyaay cultures, creation of Kumeyaay reservations, Mission Indian Federation, Public Law 83-280, Indian self-determination, Indian Gaming Regulatory Act, contemporary tribal governments, landmark Indian Gaming court cases, and an overview of laws pertaining to Native Americans in the United States. Special emphasis will be given to contemporary issues affecting the Kumeyaay Nation and Kumeyaay tribal governments, including socioeconomic deficits, tribal sovereignty, blood quantum, tribal enrollment, demographic challenges, language loss and acquisition, historical trauma, and the growing equity gaps among tribes without casinos. Also listed as HIST 129. Not open to students with credit in HIST 129. (CSU/UC) (AA/AS-4, Cal-GETC-4)

KUMY-133
Ethnoecology **3 UNITS**
3.0 hours lecture
Ethnoecology is the study of the dynamic relationship between people, biota and their environment. Through the scientific study of the principles of ecology, students use their knowledge and scientific reasoning to assess the impacts of humans on Earth's natural systems. This course will focus on the ecological and cultural basis of indigenous land management; particular attention will be paid to the environmental stewardship of the Kumeyaay/Diegueño people of Southern California and Northern Baja California. Local field trips and restoration projects in Cuyamaca College's nature preserve will provide opportunities for working directly with natural habitats. Also listed as BIO 133. Not open to students with credit in BIO 133. (CSU/UC) (AA/AS-5, Cal-GETC-5B)

KUMY-134
Ethnobotany **3 UNITS**
3.0 hours lecture
Ethnobotany is the scientific study of the relationships that exist between peoples and plants, from the perspective of their traditional medicinal, cultural and utilitarian uses. Focusing on the Kumeyaay/Diegueño people of southern California, students will utilize the principles of scientific inquiry and modern plant biology to classify native plants, identify their anatomical structures and phytochemical composition and to relate this information to how plants were woven into the culture of indigenous populations and how plants were used to sustain, heal and protect their people. The historical uses and modern applications of this knowledge will be evaluated. Local field trips will provide opportunities for identification and scientific study of the plants in their natural habitats. Also listed as BIO 134. Not open to students with credit in BIO 134. (CSU/UC) (AA/AS-5, Cal-GETC-5B)

KUMY-135
Ethnobotany/Ethnoecology Lab **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in either BIO 133 or BIO 134 or KUMY 133 or KUMY 134 or concurrent enrollment
3.0 hours laboratory
Laboratory experiments to complement KUMY 133/BIO 133: Ethnoecology and KUMY 134/BIO 134: Ethnobotany. Basic concepts in cell biology, plant taxonomy/identification, plant anatomy, plant physiology, and ecology will be covered. Students will utilize the tools of scientific inquiry to examine the relationship between plants, people and the environment using hands-on experiences. The labs will feature lessons in plant morphology, plant ecology, phytochemistry, and traditional preparation and uses of plants. Particular attention will be paid to the plants and plant communities within the Kumeyaay/Diegueño ethnobotanical region of Southern California. Also listed as BIO 135. Not open to students with credit in BIO 135. (CSU/UC) (AA/AS-5, Cal-GETC-5C)

KUMY-150
Introduction to Cultural Resource Management **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
An introduction to cultural resource management. Students will be exposed to archaeological methods, field practices, laws and regulations and learn how to be an effective cultural monitor to ensure the protection and preservation of Kumeyaay resources. Not open to students with credit in ANTH 150. (CSU/UC) (AA/AS-4, Cal-GETC-4)

KUMY-160
Introduction to Archaeological Field Work **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
This course is an introduction to the basic techniques of archaeological field work. Emphasis is placed on site survey, site layout, excavation, artifact identification, laboratory analysis and report writing. Topics also include use of compass and transit, Global Positioning Systems (GPS) and Geographic Information Systems (GIS). Students will be exposed to the techniques of data collection and analysis, cultural reconstruction and interpretation, and cultural resource management work. Through a series of workshops with guest experts on Kumeyaay indigenous knowledge, students will learn about Kumeyaay history, prehistory, traditions, politics, and beliefs while training in archaeological data collection and mapping methods. This course is designed for Anthropology and Kumeyaay Studies majors as well as students interested in prehistoric and/or historic research. Outdoor activities include walking up to 1/2 hour through mild terrain and vegetation. Students are responsible for their own transportation to and from off campus sites. Not open to students with credit in ANTH 160. (CSU/UC) (AA/AS-4, Cal-GETC-4)

KUMY-166
Introduction to Native American Politics and Policy **3 UNITS**
3.0 hours lecture
This course introduces students to Native American politics and policy from the treaty making process that formed the foundation of contemporary tribal sovereignty to legal cases and precedents that impact Native American lands and people. The course will also explore how Native people have both petitioned for access into the American polity and actively resisted assimilation. Emphasis will be given to twelve recognized Kumeyaay tribal governments in the United States and four recognized Kumeyaay/Kumiai tribal governments in Baja California, Mexico. Also listed as POSC 166. Not open to students with credit in POSC 166. (CSU/UC) (AA/AS-4, Cal-GETC-4)

KUMY-170
Kumeyaay Conflict Resolution **3 UNITS**
3.0 hours lecture
This course provides an overview of conflict resolution, negotiation, and mediation with an emphasis on Kumeyaay conflict resolution techniques and strategies. In addition, the history and current context surrounding controversial topics and issues within the Kumeyaay community and other Native American groups will be discussed. Topics may include: tribal governance, interpersonal (family and friends), generational (youth/elders), on reservation/off reservation, urban/rural, casinos, blood quantum, education, land, and natural resources (water, etc.). Also listed as SW 170. Not open to students with credit in SW 170. (CSU/UC) (AA/AS-4)

KUMY-220
Kumeyaay Language III **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in KUMY 121 or equivalent
4.0 hours lecture
Continuation of KUMY 121. Students will develop increasingly advanced oral, listening and speaking skills in the Kumeyaay language. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

Mathematics (MATH)

MATH-C2210
Calculus I: Early Transcendentals **5 UNITS**
Prerequisite: Pre-calculus, or college algebra and trigonometry, or equivalent, or placement as determined by the college's multiple measures assessment process.
5.0 hours lecture
A first course in differential and integral calculus of a single variable. Topics include limits and continuity of functions, techniques and applications of differentiation, an introduction to integration, and the Fundamental Theorem of Calculus. This course is primarily intended for Science, Technology, Engineering, and Mathematics (STEM) majors. Formerly MATH 180. Not open to students with credit in MATH 180. (C-ID MATH 210, 900S [with MATH 280]) (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-C2220
Calculus II: Early Transcendentals **4 UNITS**
Prerequisite: Calculus I: Early Transcendentals (MATH C2210), or equivalent, or placement as determined by the college's multiple measures assessment process
4.0 hours lecture
A second course in differential and integral calculus of a single variable. Topics include applications of integration, techniques of integration, infinite sequences and series, and the calculus of parametric and polar equations. This course is primarily intended for Science, Technology, Engineering, and Mathematics (STEM) majors. Formerly MATH 280. Not open to students with credit in MATH 280. (C-ID MATH 220, 900S [with MATH 180]) (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-021
Foundations for Calculus I: Early Transcendentals **2 UNITS**
Prerequisite: Appropriate Placement
Corequisite: MATH C2210
2.0 hours lecture
Support for this course focuses on the skills and concepts needed for success in Calculus and Analytic Geometry I. This course is for students concurrently enrolled in Calculus I (Math C2210) at Cuyamaca College. Students will receive extra support in algebra, analytic geometry, trigonometry, technology, and study skills. Pass/No Pass only. Non-degree applicable. Formerly Math 080. Not open to students with credit in Math 080.

MATH-078
Foundations for Calculus for Business, Social & Behavioral Sciences **2 UNITS**
Prerequisite: Appropriate placement
Corequisite: MATH 178
2.0 hours lecture
Support for this course focuses on the skills and concepts needed for success in Calculus for Business, Social & Behavioral Sciences (Math 178). This course is for students concurrently enrolled in Math 178 at Cuyamaca College. Students will receive extra support in algebra, geometry, problem solving, technology, and study skills. Pass/No Pass only. Non-degree applicable.

MATH-080
Foundations for Calculus & Analytic Geometry I **2 UNITS**
Prerequisite: Appropriate placement
Corequisite: Concurrent enrollment in MATH 180
2.0 hours lecture
Support for this course focuses on the skills and concepts needed for success in Calculus and Analytic Geometry I. This course is for students concurrently enrolled in Calculus I (Math 180) at Cuyamaca College. Students will receive extra support in algebra, analytic geometry, trigonometry, technology, and study skills. Pass/No Pass only. Non-degree applicable.

MATH-120
Quantitative Reasoning **3 UNITS**
Prerequisite: Appropriate placement beyond intermediate algebra or equivalent
3.0 hours lecture
The students will survey the historical development of mathematics and apply topics such as logic, geometry, probability, statistics, problem solving, sequences and patterns, numeration systems, and personal finance to develop quantitative reasoning skills. Designed for students who do not intend to prepare for a career in science or business. (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-125
Structure and Concepts of Elementary Mathematics I **3 UNITS**
Prerequisite: Appropriate Placement or Intermediate Algebra
3.0 hours lecture, 1.0 hours laboratory
In blending the mathematical topics of sets, whole numbers, numeration, number theory, integers, rational and irrational numbers, measurement, relations, functions and logic, the course will investigate the interrelationships of these topics using a problem-solving approach and appropriate use of technology. (C-ID MATH 120) (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-126
Structure and Concepts of Elementary Mathematics II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH 125 or equivalent
3.0 hours lecture, 1.0 hours laboratory
In blending the mathematical topics of statistics, probability, measurement, coordinate geometry, plane geometry, solid geometry, logic, relations and functions, the course will investigate the interrelationships of these topics using a problem-solving approach and appropriate use of technology. (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-128
Children's Mathematical Thinking **2 UNITS**
Prerequisite: MATH 125 or equivalent or concurrent enrollment in MATH 125
2.0 hours lecture
Children's mathematical thinking and in-depth analyses of children's understanding of operations (addition, subtraction, multiplication, division) and place value. Students will observe individual children solving mathematics problems. (CSU)

MATH-170
Analytic Trigonometry **3 UNITS**
Prerequisite: Appropriate Placement or Intermediate Algebra
3.0 hours lecture
Theoretical approach to the study of the trigonometric functions with emphasis on circular functions, trigonometric identities, trigonometric equations, graphical methods, vectors and applications, complex numbers, and solving triangles with applications. Successful completion of MATH 170 and 175 is equivalent to the successful completion of MATH 176. Maximum of 7 units can be earned for successfully completing any combination of MATH 170, 175, 176. (CSU) (AA/AS-2)

MATH-175
College Algebra **4 UNITS**
Prerequisite: Appropriate Placement or Intermediate Algebra
4.0 hours lecture
College level course in algebra for majors in science, technology, engineering, and mathematics: polynomial, rational, radical, exponential, absolute value, and logarithmic functions; systems of equations; theory of polynomial equations; and analytic geometry. Successful completion of MATH 170 and 175 is equivalent to the successful completion of MATH 176. Maximum of 7 units can be earned for successfully completing any combination of MATH 170, 175, 176. (C-ID MATH 151) (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-176
Precalculus: Functions and Graphs **6 UNITS**
Prerequisite: Appropriate placement or Intermediate Algebra
6.0 hours lecture
Preparation for calculus: polynomial, absolute value, radical, rational, exponential, logarithmic, and trigonometric functions and their graphs; analytic geometry, polar coordinates. Successful completion of MATH 176 is equivalent to the successful completion of MATH 170 and 175. Maximum of 7 units can be earned for successfully completing any combination of MATH 170, 175, 176. (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-178
Calculus for Business, Social and Behavioral Sciences **4 UNITS**
Prerequisite: Appropriate Placement or Intermediate Algebra
4.0 hours lecture
Presents a study of the techniques of calculus with emphasis placed on the application of these concepts to business and management related problems. The applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied. Not open to students with credit in MATH 180 or MATH C2210. (C-ID MATH 140) (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-245
Discrete Mathematics **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH C2220 (formerly MATH 280) or equivalent
3.0 hours lecture
Introduction to discrete mathematics. Includes basic logic, methods of proof, sequences, elementary number theory, basic set theory, elementary counting techniques, relations, and recurrence relations. (C-ID MATH 160) (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-281
Multivariable Calculus **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH C2220 (formerly MATH 280) or equivalent
4.0 hours lecture
The third of a three-course sequence in calculus. Topics include vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's Theorem, Stokes' Theorem, and divergence theorem. (C-ID MATH 230) (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-284
Linear Algebra **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH C2220 (formerly MATH 280) or equivalent
3.0 hours lecture
This course develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, and linear transformations. Selected applications of linear algebra are included. (C-ID MATH 250, 910S [with MATH 285]) (CSU/UC) (AA/AS-2, Cal-GETC-2)

MATH-285
Differential Equations **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH C2220 (formerly MATH 280) or equivalent
3.0 hours lecture
This course is an introduction to ordinary differential equations including both quantitative and qualitative methods as well as applications from a variety of disciplines. Introduces the theoretical aspects of differential equations, including establishing when solution(s) exist, and techniques for obtaining solutions, including series solutions, singular points, Laplace transforms and linear systems. (C-ID MATH 240, 910S [with MATH 284]) (CSU/UC) (AA/AS-2, Cal-GETC-2)

Common Course Numbering

MATH-060 Foundations for Elementary Statistics, and MATH-160 Elementary Statistics have been changed to STAT-010 Foundations for Introduction to Statistics, and STAT-C1000 Introduction to Statistics respectively. See Statistics (STAT) Course Description page of the catalog.

MATH-C2210 Calculus I: Early Transcendentals and MATH-C2220 Calculus II: Early Transcendentals are a part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage.

Music (MUS)

MUS-001
Music Fundamentals **4 UNITS**
4.0 hours lecture
Basic elements of music. Notation, major and minor keys, intervals, triads and 7th chords with inversions. Musical terms and analysis of chord structures. Keyboard application. (C-ID MUS 110) (CSU/UC)

MUS-008
Rock, Pop and Soul Ensemble for the Adult Learner **0 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 209 or equivalent
3.0 hours laboratory
This course is designed for mature students who are interested in improving existing skills or developing a higher degree of expertise in the performance of instrumental music. This is a no-fee/no-credit course.

MUS-052
Concert Band for the Adult Learner **0 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 253 or equivalent
3.0 hours laboratory
This course is designed for mature students who are interested in improving existing skills or developing a higher degree of expertise in the performance of instrumental music. This is a no-fee/no-credit course.

MUS-058
Choir for the Adult Learner **0 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 259 or equivalent
3.0 hours laboratory
This course is designed for mature students who are interested in improving existing skills or developing a higher degree of expertise in the performance of choral music. This is a no-fee/no-credit course.

MUS-090
Preparatory Performance Studies I **0.5 UNITS**
1.5 hours laboratory
Preparation for audition into MUS 190. Designed to enhance the musical progress of students who are currently receiving the equivalent of fifteen one-half hour lessons per semester of individual vocal or instrumental instruction. Pass/No Pass only. Non-degree applicable.

MUS-091
Preparatory Performance Studies II **0.5 UNITS**
1.5 hours laboratory
Continued preparation for audition into MUS 190. Designed to enhance the musical progress of students who are currently receiving the equivalent of fifteen one-half hour lessons per semester of individual vocal or instrumental instruction. Pass/No Pass only. Non-degree applicable.

MUS-104
Introduction to the Music Industry **3 UNITS**
3.0 hours lecture
Survey of the music industry with an emphasis on individual career options, roles and responsibilities. Includes interaction with industry components and relationships between business personnel and the music artist. (CSU)

MUS-105
Music Theory and Practice I **4 UNITS**
3.0 hours lecture, 3.0 hours laboratory
Introduction to music theory and ear training. Study of harmonic concepts of the 18th and 19th centuries. Rhythmic and melodic ear training. Keyboard application and sight singing. (C-ID MUS 120, 125) (CSU/UC)

MUS-106
Music Theory and Practice II **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 105 or equivalent
3.0 hours lecture, 3.0 hours laboratory
Continuation of Music Theory I (MUS 105) including both written and aural aspects of music theory. Additionally, the course will include diatonic harmony, two-part counterpoint, four-part voice leading and an introduction to secondary function and modulation. The written aspects of the course will be approached via composition and analysis while the aural aspects of the course will include rhythmic, melodic and harmonic dictation as well as sight singing. (C-ID MUS 130, MUS 135) (CSU/UC)

MUS-108
Rock, Pop and Soul Ensemble **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study and performance of representative popular music compositions from the second half of the 20th century with an emphasis on rock, rhythm and blues, and pop music. Open to instrumentalists and singers. (CSU/UC)

MUS-109
Rock, Pop and Soul Ensemble **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study and performance of representative popular music compositions from the second half of the 20th century with an emphasis on rock, rhythm and blues, and pop music. Open to instrumentalists and singers. (CSU/UC)

MUS-110
Great Music Listening **3 UNITS**
3.0 hours lecture
Listening and reading survey course to acquaint students with fundamental elements of musical style. Covers repertoire from a variety of cultures and periods with primary emphasis on the Western concert tradition. (C-ID MUS 100) (CSU/UC) (AA/AS-3, Cal-GETC-3A)

MUS-111
History of Jazz **3 UNITS**
3.0 hours lecture
Listening and reading survey course covering the history of jazz from its origins to the present. Includes style periods, significant artists, the broad cultural context of jazz, and the development of critical listening skills. (CSU/UC) (AA/AS-3, Cal-GETC-3A)

MUS-115
History of Rock Music **3 UNITS**
3.0 hours lecture
Overview of rock and rock-related musical styles from the early 1950s to the present. Coverage includes related social and cultural trends, outstanding artists, the influence of technology on popular music, and relevant trends in the music industry. Basic musical concepts such as pitch, rhythm and form will be introduced and applied to the music under consideration. (CSU/UC) (AA/AS-3, Cal-GETC-3A)

MUS-116
Introduction to World Music **3 UNITS**
3.0 hours lecture
Designed to expand the student's perspective about the nature of music around the world and demonstrate the relationship between music in different cultures. Highlights elements common to all music. May include music of the cultures of India, China, Japan, Indonesia, Africa, Pacific Islands, the Middle East, Europe, and the Americas. (CSU/UC) (AA/AS-3, Cal-GETC-3A)

MUS-117
Introduction to Music History and Literature **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 001 or equivalent
3.0 hours lecture
Survey of art music in Western civilization from the ancient period to the present. Musical styles will be studied within the context of concurrent developments in society, politics and other arts. (CSU/UC) (AA/AS-3, Cal-GETC-3A)

MUS-118
Introduction to Music **4 UNITS**
4.0 hours lecture
Study of basic music theory including notation, rhythms, and sight-singing. Introduction to basic rhythm instruments and development of keyboard facility and vocal skill. Designed for preschool/elementary education majors and non-music majors. (CSU/UC)

MUS-119
Cooperative Work Experience in Music Education **1-4 UNITS**
Practical application of principles and procedures learned in the classroom to the various phases of music education. Work experience will be paid or unpaid at local middle or high school music programs. Placement assistance will be provided. Two on-campus sessions will be scheduled. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of 12 units. 54 hours paid or unpaid work experience per unit, 1-4 units. (CSU)

MUS-120
Introduction to Music Technology **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in MUS 001 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Introduction to the basic concepts and processes for editing digital audio and using the digital synthesizer and personal computer to perform, notate and record music. Students should have basic computer skills, basic piano or keyboard skills, and be able to read music. (CSU)

MUS-121
Music Industry Seminar **1 UNITS**
3.0 hours laboratory
In this project-based class, students will develop and create promotional materials for a local musical artist or groups, and will collaborate to produce concerts of popular music. The course content combines work in recording, print, and electronic media as well as concert production. (CSU)

MUS-122
Music Industry Seminar **1 UNITS**
3.0 hours laboratory
In this project-based class, students will develop and create promotional materials for a local musical artist or groups, and will collaborate to produce concerts of popular music. The course content combines work in recording, print, and electronic media as well as concert production. (CSU)

MUS-123
History of Hip Hop Culture **3 UNITS**
3.0 hours lecture
This is a survey course that will examine the origins and rise of Hip-Hop as an artistic form and global cultural phenomenon. It is designed for students who wish to examine and explore Hip-Hop culture, while developing background knowledge of Hip-Hop history from the early 1970's South Bronx to its national and international role today. The connections between rap music and the other elements of Hip-Hop culture will be explored and students will be challenged to think critically about rap music and its place in society. Controversial subjects such as censorship, racism, sexism, and racial politics in America will be discussed as they relate to the subject matter. (CSU/UC) (AA/AS-3, Cal-GETC-3A)

MUS-126
Class Guitar I **2 UNITS**
2.0 hours lecture
Beginning course in guitar for non-music majors. Fundamentals of music as related to the guitar including chords and reading staff notation. (CSU/UC)

MUS-127
Class Guitar II **2 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 126 or equivalent
2.0 hours lecture
Guitar for non-music majors. Continuation of MUS 126 with an emphasis on reading staff notation in closed positions, playing scales and chords in major and minor keys, and developing both left and right hand technique. (CSU/UC)

MUS-132
Class Piano I **3 UNITS**
3.0 hours lecture
Note reading in treble and bass clefs. Major and minor key signatures. Scales, arpeggios and primary triads in major and minor keys. Transposition, improvisation and harmonization. Development of sight reading ability, two-handed coordination, correct fingering techniques, and proper use of weight and relaxation in production of tone. (CSU/UC)

MUS-133
Class Piano II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 132 or equivalent
3.0 hours lecture
Continuation of MUS 132. Scales in minor keys. Scales with hands together. Music literature performed in major and minor keys. Harmonization and sight reading in major and minor keys. Piano pieces in binary form with mixed texture including parallel, contrary and oblique motion. (CSU/UC)

MUS-136
Chamber Singers **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study of standard and contemporary choral literature (classics to jazz) for small choral ensemble. Includes performances on campus and in local schools and communities. Open to all singers in the community and students of the college. (CSU/UC)

MUS-137
Chamber Singers **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study of standard and contemporary choral literature (classics to jazz) for small choral ensemble. Includes performances on campus and in local schools and communities. Open to all singers in the community and students of the college. (CSU/UC)

MUS-152
Concert Band **1 UNITS**
3.0 hours laboratory
Study of representative concert band compositions in a wide variety of styles at regular rehearsals and public performances. (C-ID MUS 180) (CSU/UC)

MUS-153
Concert Band **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 152 or equivalent
3.0 hours laboratory
Study of representative concert band compositions in a wide variety of styles at regular rehearsals and public performances. (C-ID MUS 180) (CSU/UC)

MUS-156
Jazz Ensemble **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study of representative jazz ensemble compositions in a wide variety of styles at regular rehearsals and public performances. (C-ID MUS 180) (CSU/UC)

MUS-157
Jazz Ensemble **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study of representative jazz ensemble compositions in a wide variety of styles at regular rehearsals and public performances. (C-ID MUS 180) (CSU/UC)

MUS-158
Chorus **1 UNITS**
3.0 hours laboratory
Study and performance of standard and contemporary choral literature for choral ensemble. Open to all singers in the community and students of the college. (C-ID MUS 180) (CSU/UC)

MUS-159
Chorus **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 158 or equivalent
3.0 hours laboratory
Study and performance of standard and contemporary choral literature for choral ensemble. Open to all singers in the community and students of the college. (C-ID MUS 180) (CSU/UC)

MUS-161
Cooperative Work Experience in Music Industry **1-4 UNITS**
Practical application of principles and procedures learned in the classroom to the various phases of the music industry. Work experience will be paid or unpaid at local businesses that are part of the music industry such as recording studios, booking agencies, and music equipment manufacturers/retailers. Placement assistance will be provided. Two on-campus sessions will be scheduled. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of 12 units. 54 hours paid or unpaid work experience per unit, 1-4 units. (CSU)

MUS-170
Class Voice **2 UNITS**
Recommended Preparation: Ability to read music
2.0 hours lecture
Designed to help the student learn to use the voice correctly. Principles of vocal placement, posture, balance, breath control and vocal tone are emphasized through individual performances. (CSU/UC)

MUS-171
Class Voice **2 UNITS**
Recommended Preparation: Ability to read music
2.0 hours lecture
Designed to help the student learn to use the voice correctly. Principles of vocal placement, posture, balance, breath control and vocal tone are emphasized through individual performances. (CSU/UC)

MUS-184
Digital Audio Recording and Production **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 120 or equivalent
2.0 hours lecture, 3.0 hours laboratory
In-depth presentation of digital audio recording, editing and processing. Students will learn techniques for in-studio and live recording and will record and edit new musical recordings. Students should have a basic understanding of digital audio vocabulary and basic experience with using a computer to make/record music. (CSU)

MUS-190
Performance Studies **0.5 UNITS**
Prerequisite: Audition
1.5 hours laboratory
Primarily for music majors. Designed to enhance the musical progress of students who are currently receiving the equivalent of fifteen one-half hour lessons per semester of individual vocal or instrumental instruction. In-depth study of performances and techniques. Participation in class performances and student recitals is required. (C-ID MUS 160) (CSU)

MUS-191
Performance Studies **0.5 UNITS**
Prerequisite: Audition
1.5 hours laboratory
Primarily for music majors. Designed to enhance the musical progress of students who are currently receiving the equivalent of fifteen one-half hour lessons per semester of individual vocal or instrumental instruction. In-depth study of performances and techniques. Participation in class performances and student recitals is required. (C-ID MUS 160) (CSU)

MUS-205
Music Theory and Practice III **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 106 or equivalent
3.0 hours lecture, 3.0 hours laboratory
Continuation of MUS 106. Chromatic harmony of the 18th and 19th centuries including secondary dominants, borrowed chords and altered chords. Rhythmic, melodic and harmonic dictation. Sight singing. Analysis of Bach chorales. Form analysis of Sonata-form, Minuet/Scherzo, Rondo, and Theme and Variations. (C-ID MUS 140, 145) (CSU/UC)

MUS-206
Music Theory and Practice IV **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 205 or equivalent
3.0 hours lecture, 3.0 hours laboratory
Continuation of MUS 205. Harmony of the Post-Romantic and 20th century styles. Expanded tonality. Use of church modes, pentatonic, synthetic and dodecaphonic scales. Parallelism, pandiatonicism, twelve-tone technique, aleatory music and electronic music. Study of the 18th century two-part counterpoint. Ear-training and sight singing. (C-ID MUS 150, 155) (CSU/UC)

MUS-208
Rock, Pop and Soul Ensemble **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study and performance of representative popular music compositions from the second half of the 20th century with an emphasis on rock, rhythm and blues, and pop music. Open to instrumentalists and singers. (CSU/UC)

MUS-209
Rock, Pop and Soul Ensemble **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study and performance of representative popular music compositions from the second half of the 20th century with an emphasis on rock, rhythm and blues, and pop music. Open to instrumentalists and singers. (CSU/UC)

MUS-221
Music Industry Seminar **1 UNITS**
3.0 hours laboratory
In this project-based class, students will develop and create promotional materials for a local musical artist or groups, and will collaborate to produce concerts of popular music. The course content combines work in recording, print, and electronic media as well as concert production. (CSU)

MUS-222
Music Industry Seminar **1 UNITS**
3.0 hours laboratory
In this project-based class, students will develop and create promotional materials for a local musical artist or groups, and will collaborate to produce concerts of popular music. The course content combines work in recording, print, and electronic media as well as concert production. (CSU)

MUS-226
Class Guitar III **2 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 127 or equivalent
2.0 hours lecture
Guitar for non-music majors. Continuation of MUS 127 with an emphasis on high position reading, introductory chord and scale alterations, and technical development. (CSU/UC)

MUS-227
Class Guitar IV **2 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 226 or equivalent
2.0 hours lecture
Guitar for non-music majors. Continuation of MUS 226 with an emphasis on playing solos and accompaniments in various styles and idioms. (CSU/UC)

MUS-232
Class Piano III **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 133 or equivalent
3.0 hours lecture
Continuation of MUS 133. Multiple octave performance of major and minor scales. Authentic and plagal cadences. Reading of four-part chorales. Ensemble playing and accompaniment. Intermediate piano pieces in ternary form. (CSU/UC)

MUS-233
Class Piano IV **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 232 or equivalent
3.0 hours lecture
Continuation of MUS 232. Keyboard harmony and deceptive cadence. Reading an open score. Ensemble playing and accompaniment. Piano literature from the 18th through the 20th centuries. (CSU/UC)

MUS-236
Chamber Singers **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study of standard and contemporary choral literature (classics to jazz) for small choral ensemble. Includes performances on campus and in local schools and communities. Open to all singers in the community and students of the college. (CSU/UC)

MUS-237
Chamber Singers **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study of standard and contemporary choral literature (classics to jazz) for small choral ensemble. Includes performances on campus and in local schools and communities. Open to all singers in the community and students of the college. (CSU/UC)

MUS-252
Concert Band **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 153 or equivalent
3.0 hours laboratory
Study of representative concert band compositions in a wide variety of styles at regular rehearsals and public performances. (C-ID MUS 180) (CSU/UC)

MUS-253
Concert Band **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 252 or equivalent
3.0 hours laboratory
Study of representative concert band compositions in a wide variety of styles at regular rehearsals and public performances. (C-ID MUS 180) (CSU/UC)

MUS-256
Jazz Ensemble **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study of representative jazz ensemble compositions in a wide variety of styles at regular rehearsals and public performances. (CSU/UC)

MUS-257
Jazz Ensemble **1 UNITS**
Prerequisite: Audition
3.0 hours laboratory
Study of representative jazz ensemble compositions in a wide variety of styles at regular rehearsals and public performances. (CSU/UC)

MUS-258
Chorus **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 159 or equivalent
3.0 hours laboratory
Study and performance of standard and contemporary choral literature for choral ensemble. Open to all singers in the community and students of the college. (C-ID MUS 180) (CSU/UC)

MUS-259
Chorus **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MUS 258 or equivalent
3.0 hours laboratory
Study and performance of standard and contemporary choral literature for choral ensemble. Open to all singers in the community and students of the college. (C-ID MUS 180) (CSU/UC)

MUS-260
Conducting **1 UNITS**
Corequisite: One of the following: MUS 152, 153, 158, 159, 252, 253, 258, 259
Recommended Preparation: Experience playing or singing in a large musical ensemble
1.0 hours lecture, 1.0 hours laboratory
Fundamentals of conducting including basic technique, score study and rehearsal techniques. Designed for music majors. (CSU/UC)

MUS-262
Woodwinds Methods **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Beginning instruction on provided Woodwind instruments with an emphasis on pedagogy. Open to all students and designed for music education majors. (CSU/UC)

MUS-263
Brass Methods **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Beginning instruction on provided Brass instruments with an emphasis on pedagogy. Open to all students and designed for music education majors. (CSU/UC)

MUS-270
Class Voice **2 UNITS**
Recommended Preparation: Ability to read music
2.0 hours lecture
Designed to help the student learn to use the voice correctly. Principles of vocal placement, posture, balance, breath control and vocal tone are emphasized through individual performances. (CSU/UC)

MUS-271
Class Voice **2 UNITS**
Recommended Preparation: Ability to read music
2.0 hours lecture
Designed to help the student learn to use the voice correctly. Principles of vocal placement, posture, balance, breath control and vocal tone are emphasized through individual performances. (CSU/UC)

MUS-272
String Methods **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Beginning instruction on provided String instruments with an emphasis on pedagogy. Open to all students and designed for music education majors. (CSU/UC)

MUS-273
Percussion Methods **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Beginning instruction on provided Percussion instruments with an emphasis on pedagogy. Open to all students and designed for music education majors. (CSU/UC)

MUS-290
Performance Studies **0.5 UNITS**
Prerequisite: Audition
1.5 hours laboratory
Primarily for music majors. Designed to enhance the musical progress of students who are currently receiving the equivalent of fifteen one-half hour lessons per semester of individual vocal or instrumental instruction. In-depth study of performances and techniques. Participation in class performances and student recitals is required. (C-ID MUS 160) (CSU)

MUS-291
Performance Studies **0.5 UNITS**
Prerequisite: Audition
1.5 hours laboratory
Primarily for music majors. Designed to enhance the musical progress of students who are currently receiving the equivalent of fifteen one-half hour lessons per semester of individual vocal or instrumental instruction. In-depth study of performances and techniques. Participation in class performances and student recitals is required. (C-ID MUS 160) (CSU)

MUS-292A
Applied Music **0.5 UNITS**
Prerequisite: Audition
Corequisite: One of the following: MUS 090, 091, 190, 191, 290, 291
Recommended Preparation: Experience playing an instrument or singing
1.5 hours laboratory
Applied music lessons to include 12 lessons over the course of the semester. Instruction covers fundamental technique, etudes and core repertoire in preparation for end of semester performance. (CSU)

MUS-293A
Applied Music **0.5 UNITS**
Prerequisite: Audition
Corequisite: One of the following: MUS 090, 091, 190, 191, 290, 291
Recommended Preparation: Experience playing an instrument or singing
1.5 hours laboratory
Applied music lessons to include 12 lessons over the course of the semester. Instruction covers fundamental technique, etudes and core repertoire in preparation for end of semester performance. (CSU)

MUS-294A
Applied Music **0.5 UNITS**
Prerequisite: Audition
Corequisite: One of the following: MUS 090, 091, 190, 191, 290, 291
Recommended Preparation: Experience playing an instrument or singing
1.5 hours laboratory
Applied music lessons to include 12 lessons over the course of the semester. Instruction covers fundamental technique, etudes and core repertoire in preparation for end of semester performance. (CSU)

MUS-295A
Applied Music **0.5 UNITS**
Prerequisite: Audition
Corequisite: One of the following: MUS 090, 091, 190, 191, 290, 291
Recommended Preparation: Experience playing an instrument or singing
1.5 hours laboratory
Applied music lessons to include 12 lessons over the course of the semester. Instruction covers fundamental technique, etudes and core repertoire in preparation for end of semester performance. (CSU)

Nutrition (NUTR)

NUTR-155
Introduction to Human Nutrition **3 UNITS**
3.0 hours lecture
This course is an introduction to the fundamentals of nutrition science, integrating concepts and research from biology, biochemistry, microbiology, physiology, and psychology to explain the interaction between nutrients and the human body. Current nutrition guidance models and approaches to medical nutrition are analyzed with an emphasis on evidence-based findings. A discussion of food selection, the nutritional components of food, metabolism and risks associated with excesses or deficiencies throughout the lifecycle are also discussed. (CSU/UC) (AA/AS-4,7A)

NUTR-158
Nutrition for Fitness and Sports **3 UNITS**
3.0 hours lecture
Investigates the effects of nutrition and various dietary regimens on athletic performance, physical fitness and general health. Compares the physiological effects of optimal nutrition vs. inadequate nutrition for the general population as well as athletes. Cultural, sociological and psychological influences will be examined. Discussion of fads and dietary supplements is included. (CSU) (AA/AS-4,7A)

NUTR-255
Science of Nutrition **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in BIOL C1000 (formerly BIO 120) and CHEM 120 or equivalent
3.0 hours lecture
Establishes the relationship between foods and science through the study and integration of chemistry, biology and nutrition science. The metabolism and functions and sources of nutrients will be covered in detail to correlate the role they have in promotion of health and disease prevention. The challenges that occur during the human life cycle and how nutrient needs change will be studied. Includes evaluation from a scientific perspective of current concepts, controversies, and dietary recommendations. Nutritional issues as they relate to weight maintenance, eating disorders, food labeling, food safety and special needs at various stages in the life cycle will be thoroughly examined. (C-ID NUTR 110) (CSU/UC) (AA/AS-7A)

Oceanography (OCEA)

OCEA-112
Introduction to Oceanography **3 UNITS**
3.0 hours lecture
Physical science course which examines major aspects of the marine environment. Topics include the origin of the oceans, plate tectonics, seafloor features, seawater properties, ocean climate, currents, waves, tides, coastal landforms, marine ecology, pollution, and resources. The history and development of oceanography and the present and future importance of the oceans are also discussed. (CSU/UC) (AA/AS-5, Cal-GETC-5A)

OCEA-113
Oceanography Laboratory **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in OCEA 112 or equivalent or concurrent enrollment
3.0 hours laboratory
Hands-on oceanographic laboratory experience to accompany and augment OCEA 112. Includes laboratory and field investigations of the marine environment emphasizing the geological, chemical, physical and biological aspects of the ocean. (CSU/UC) (AA/AS-5, Cal-GETC-5C)

Ornamental Horticulture (OH)

UC credit limit: all CADD courses, ENGR 119, ENGR 129, OH 200, OH 201 combined: maximum credit, one course

OH-102
Xeriscape: Water Conservation in the Landscape **2 UNITS**
2.0 hours lecture
Water management principles and practices as applied to the landscape. Topics include plant selection, landscape design principles for water conservation, irrigation system selection and management, soil preparation and management, and current topics and issues of California and United States water conservation efforts. (CSU)

OH-114
Floral Design I **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Theory and practice of basic geometric floral design, identification of flowers and foliages, and practical skills necessary for employment in the floral industry. Fresh, silk and dried flowers will be used. (CSU)

OH-116
Floral Design II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in OH 114 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Theory and practice of parallel, vegetative, and contemporary line designs for the retail floral industry. Students will use fresh flowers. silks, dried flowers, foliages, organic and inorganic materials for creating floral designs with an emphasis on European influence and trends. (CSU)

OH-117
Wedding Design I **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in OH 114 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Theory and practice of numerous styles of wedding bouquets and corsages including church and reception floral designs. Emphasis is on the skills, mechanics and speed necessary in the floral industry. (CSU)

OH-118
Special Occasion Floral Design **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in OH 114 or equivalent or one year high school floral design or trade experience
2.0 hours lecture, 3.0 hours laboratory
Learn to create unique floral arrangements used for parties, weddings, funerals and gala events. Arrangements will focus on the use of unusual and exotic flowers, containers and special mechanical props. (CSU)

OH-120
Fundamentals of Ornamental Horticulture **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Study of plant structure and function. Topics include basic principles of soil science and fertilizer requirements, and the growth of plants in regard to the environmental factors of water, light and temperature. The lab provides an overview of various skills needed in all fields of ornamental horticulture including pruning, basic equipment operation, fertilizer application and general nursery skills. (CSU)

OH-121
Plant Propagation **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Principles of plant propagation from seed, cutting, budding, grafting, layering, division and tissue culture. Greenhouses, cold frames, mist chambers and other propagating structures will be discussed along with stock selection, use of rooting hormones, proper sanitation procedures, and protection of young seedlings from disease. Lab exercises include propagation of plant material by various methods and working with various structures, tools and equipment common to plant propagation. (C-ID AG-EH 116L) (CSU/UC)

OH-130
Plant Pest Control **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Identification and control of insects, mites, spiders, snails, weeds and diseases that affect ornamental plants with an emphasis on their phylogenetic relationships, habits, habitats and important characteristics affecting the health of ornamental plants. Control methods will stress the relationships with predators and integrated pest management. The course will introduce study material for the Qualified Applicator Certificate and License. (C-ID AG-EH 120X) (CSU)

OH-140
Soils **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Study of soil formation, characteristics, and classification with an emphasis on the management of various soil types with regard to pH, salinity, texture, organic matter control and other variables. The lab will include investigation of soil conditions, problems and management solutions common to soils in Southern California. (CSU/UC)

OH-150
Landscape Architecture I **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
The course focuses on principles of landscape architecture for public and residential projects with an emphasis on the creation of usable, pleasant outdoor spaces. Topics include strategies to create cohesive site and planting plans using industry drafting standards. The lab emphasizes hands-on design and drafting exercises. (CSU)

OH-151
Landscape Architecture II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in OH 150 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Principles of landscape architecture for public and residential projects with an emphasis on the creation of usable, pleasant outdoor spaces. Focuses on cohesive set of construction drawings (site plan, planting plan, grading plan, lighting plan, and basic construction details) using industry drafting standards. The lab emphasizes hands-on design exercises and drafting of landscape projects using hand graphics and computer-generated drawings. (CSU)

OH-170
Plant Materials: Trees and Shrubs **3 UNITS**
3.0 hours lecture
Identification, cultural requirements, and landscape uses of ornamental trees and shrubs common to the California landscape. (CSU/UC)

OH-174
Turf and Ground Cover Management **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Building, care and maintenance of turf grasses and ground covers in parks and landscaping. Includes soil preparation, planting, fertilizing, maintenance of common and special turf grasses and ground covers, and pest and disease problems and their control. (CSU)

OH-180
Plant Materials: Annuals and Perennials **3 UNITS**
3.0 hours lecture
Identification, cultural requirements, and landscape value of common annuals and perennials used as bedding plants, annual color, and in the commercial floral industry. (CSU/UC)

OH-190
Business Management for Turf and Horticulture **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
In-depth study of developing and managing comprehensive fertilizer and pest control programs, including accurate cost calculations and effective implementation strategies. Turfgrass identification is covered. Students will gain practical experience in budgeting, forecasting, and managing financial resources for turf and landscape operations, preparing them for leadership roles in the green industry. (CSU)

OH-200
Introduction to Computer-Aided Landscape Design **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Learn to create stunning landscape plans and detailed construction documents using the latest AutoCAD software. Design beautiful landscapes by selecting and placing hardscape materials and plants, and preparing conceptual plans with elevations, imagery, legends, and title blocks. Enhance visuals using color and plotting techniques to bring your designs to life. Develop professional documents that include detailed planting, irrigation, and lighting plans. Perfect for beginners and those looking to refine their skills. Enroll now and start transforming outdoor spaces with confidence! Also listed as CADD 200. Not open to students with credit in CADD 200. (CSU/UC)

OH-201
Advanced Computer-Aided Landscape Design **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CADD/OH 200 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Use of computer-aided landscape design software for the application of graphics, symbols, patterns, layouts, text and scales for the development of design drawings, concept plans, construction documents and cost estimates for residential landscape projects. Also listed as CADD 201. Not open to students with credit in CADD 201. (CSU/UC)

OH-220
Landscape Construction: Concrete and Masonry **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Study of landscape construction methods and materials. Topics include: landscape contract law; concrete flat work including stamped concrete; brick, block, and stone masonry; and proper design and construction of retaining and free standing walls. Grading and installation of plant material will also be covered. (C-ID AG-EH 132X) (CSU)

OH-221
Landscape Construction: Irrigation **2.5 UNITS**
2.0 hours lecture, 1.5 hours laboratory
Study of landscape construction methods and materials. Topics include: irrigation and drainage plan reading, materials and components, installation and construction, installation and troubleshooting of control valves and control clocks; code and design requirements for irrigation and drainage. (CSU)

OH-222
Japanese Garden Design and Construction **1 UNITS**
0.5 hours lecture, 1.5 hours laboratory
An introduction to Japanese garden design concepts and construction methods. The course will cover the historical development of Japanese gardens and, based on the 11th century garden design book Sakuteiki, design concepts and construction of garden elements such as stone compositions, streams, ponds, waterfalls, Zen-influenced stone gardens (dry landscape garden), water-basins, introduction to traditional pruning and other basic design, construction and maintenance techniques.

OH-225
Landscape Contracting **3 UNITS**
3.0 hours lecture
Covers the practices in applying standard techniques in landscape construction and estimating for landscape trades. Reviews the rules, regulations and licensing laws governing landscape contractors set forth by the State of California. Includes an exploration of the field of landscape contracting and business practices associated with the landscape industry. (CSU)

OH-235
Principles of Landscape Irrigation **4 UNITS**
4.0 hours lecture
Principles of hydraulics as applied to landscape irrigation systems, including static and dynamic pressures, pipe flows and velocities, pipe sizing, water hammer, pump selection and use. Introduction to system components including valves, backflow prevention devices, controllers and pumps and pipe. (CSU)

OH-238
Irrigation System Design **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in OH 235 or equivalent or concurrent enrollment
2.0 hours lecture, 3.0 hours laboratory
Introduction to basic design and technical skills required to produce professional irrigation system designs. Building on the knowledge acquired in OH 235, students will design complete spray and low-volume systems, calculate hydraulic parameters and schedules, prepare details and specifications, practice presentation skills, analyze working designs, learn head spacing and pipeline layout, and specify equipment using manufacturers' catalogs. A design studio environment is used (including team building and mentoring exercises) to prepare students for entry-level employment in the irrigation design field. (CSU)

OH-240
Greenhouse Plant Production **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Study of greenhouse plant production. Emphasis on the programming of greenhouse crops common to Southern California. The course will cover equipment, structures, environmental control, estimation of crop production requirements, and production and sales of common greenhouse crops. (CSU)

OH-250
Landscape Water Management **2 UNITS**
1.0 hours lecture, 3.0 hours laboratory
Water management principles and practices for urban landscapes including water audit methods and certification, irrigation scheduling, water budgets, water use monitoring, and laws and regulations pertaining to urban landscape irrigation and runoff. (CSU)

OH-255
Sustainable Urban Landscape Principles and Practices **2 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in OH 120, 170 or equivalent
2.0 hours lecture
Principles and practices of sustainable landscape design, construction and maintenance. The course provides a basic understanding of the holistic function of the landscape in the context of sustainability. Using a comprehensive systems approach, learn to investigate, analyze, and apply sustainable environmental practices to a project site. Practice communicating ideas, research, and solutions, creatively and confidently via oral presentations. (CSU/UC)

OH-260
Arboriculture **3 UNITS**
2.0 hours lecture, 3.0 hours laboratory
Introductory course in the study and practice of arboriculture: the knowledge and care of individual trees living in populated areas. The course will familiarize students with the principles and practices of selecting, establishing, and maintaining trees, including tree biology, planting, pruning, diagnosis and preventative care, hazard evaluation, safe work practices, and tree valuation methods. The course can be used to prepare for the International Society of Arboriculture Certification Exam, and can provide Continuing Education units for those already certified. (CSU/UC)

OH-263
Urban Forestry **1 UNITS**
1.0 hours lecture, 0.5 hours laboratory
Introduces students to the theory and practice of conducting detailed tree inventories, management of public trees, tree evaluation for hazard assessment and risk reduction programs, legal aspects of trees, and appraisal of value methods for trees. Students will also learn site evaluation, benefits of tree volunteer organizations, priority action plans, and emergency response plans. (CSU)

OH-264
Safe Work Practices in Tree Climbing and Arboriculture **1 UNITS**
0.5 hours lecture, 1.5 hours laboratory
Study and training in the current accepted arboricultural practices in tree climbing and tree work with a chainsaw. Course content includes safety standards and procedures for: personal protective equipment, climbing equipment identification and preparation, pre-climb tree inspection, proper use of climbing equipment, safe operation and maintenance of chainsaws. The course can be used to help with preparation for the International Society of Arboriculture Certified Tree Worker Climber Specialist Exam, and can provide Continuing Education units for those already certified. (CSU)

OH-265
Golf Course and Sports Turf Management **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in OH 174 or equivalent or concurrent enrollment
2.0 hours lecture, 3.0 hours laboratory
Advanced study in the specialization of golf course and athletic field management. Includes specialized turf management techniques, specialized equipment, budget development, scheduling requirements, and administrative considerations. (CSU)

OH-266
Science in Practice for Arboriculture **1 UNITS**
1.0 hours lecture
An overview of the scientific concepts of arboriculture, especially as applied to the knowledge required of an International Society of Arboriculture Certified Arborist. Individuals who attain this certification are expected to apply current scientific knowledge and best management practices to the evaluation and care of trees. (CSU)

OH-275
Diagnosing Horticultural Problems **3 UNITS**
Recommended Preparation: "C" grade or higher or "Pass" in OH 120, 130, 170 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Explores methods for positive identification and understanding of symptoms for accurate diagnosis of plant problems in the landscape and nursery. Biotic and abiotic causal agents including cultural influences, nutrient deficiencies and toxicities, pest and disease problems, soil salinity, aeration, drainage and irrigation problems will be discussed. Control and correction of disorders will be determined through an understanding of the organism or function involved. (CSU)

OH-290
Cooperative Work Experience Education **1-4 UNITS**
Practical application of principles and procedures learned in the classroom to the various phases of horticulture. Work experience will be paid or unpaid at local nurseries and landscape-related companies. Placement assistance will be provided. Two on-campus sessions will be scheduled. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours unpaid hours per unit earned. May be taken for a maximum of 12 units. 54 hours paid or unpaid work experience per unit, 1-4 units. (CSU)

Paralegal Studies (PARA)

PARA-100
Introduction to Paralegal Studies **3 UNITS**
3.0 hours lecture
This course provides a historical perspective of the law and the profession of paralegal. The main focus is the role of the paralegal in the law office including client contact, ethical responsibilities, investigative fact finding, law office management, and legal restrictions. Students will be introduced to legal research and writing, substantive and procedural law, the court systems, and legal terminology. (CSU)

PARA-110
Civil Litigation Practice and Procedures **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
3.0 hours lecture
The initial phase of an action, the issues of jurisdiction, the complaint and the discovery process will be examined. Court procedures, "Fast Track" and alternatives to litigation such as arbitration and mediation will be discussed. The basic elements of a tort claim will be reviewed as well as the Federal and State Rules of Evidence. Emphasis is placed on the paralegal's role and ethical and professional responsibilities in discovery procedures including e-discovery and trial practice. (CSU)

PARA-120
Introduction to Administrative Law **2 UNITS**
2.0 hours lecture
This course is intended to be an introduction to Administrative Law and the role of the paralegal in various administrative agencies. Statutory law, case law, and administrative rules will be utilized to develop, for the student, an understanding of the role and authority of administrative agencies. Students completing this course will have the foundation to advance into the areas of Social Security, Worker's Compensation, and Labor and Employment Law. (CSU)

PARA-121
Social Security Disability Law **1 UNITS**
1.0 hours lecture
This course is intended to be an introduction to Social Security Disability Law and the role of Paralegals in the Social Security Administration. Statutory law, case law and Social Security rules will be utilized to develop an understanding of the role and authority of the Social Security Administration. Students will also be able to assist applicants with the processing of their disability applications and claims. Students completing this course will have the foundation to advance into other specialty areas of Administrative Law. (CSU)

PARA-125
Business Organizations **1 UNITS**
1.0 hours lecture
This course covers the fundamentals of the formation of business entities such as sole proprietorships, partnerships, limited liability companies and various types of corporations. Emphasis will be on formation, maintenance, taxation, and termination of business entities particularly in the use of electronic resources. There will also be a focus on the ethical responsibilities of paralegals working in the business organization environment. (CSU)

PARA-130
Legal Research and Writing **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
3.0 hours lecture
Includes in-depth legal research, writing research reports and subject matter reports on legal issues, case briefings, and citations using the uniform system of citation The Bluebook. (CSU)

PARA-132
Computer Assisted Legal Research (CALR) **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
3.0 hours lecture
The study of computer software programs designed specifically for use in law offices and legal environments, including but not limited to specific applications such as calendaring, and time and billing programs. The course focuses on legal research using electronic sources. (CSU)

PARA-135
Bankruptcy Law **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
3.0 hours lecture
The United States Federal Bankruptcy Code (as amended) will be the foundation of this examination of bankruptcy law and practice. Students will be exposed to the jurisdictional and filing requirements for bankruptcy cases under Chapters 7, 11 and 13 of the Bankruptcy Code, and will learn pertinent rules of federal procedure associated with bankruptcy case filings. The focus will be on "consumer" Chapters 7 and 13. (CSU)

PARA-140
Introduction to Criminal Law and Procedures **1 UNITS**
1.0 hours lecture
The California Penal Code and Rules of Criminal Procedure will be the foundation of this preliminary-examination of the substantive and procedural laws in a criminal case. Students will be exposed to the basics of the criminal justice system from the elements of offenses through post-conviction remedies. The drafting of documents associated with criminal matters will be included. (CSU)

PARA-145
Estate Planning **2 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
Recommended Preparation: Familiarity with Canvas learning platform, basic computing, rudimentary understanding of contracts and property law
2.0 hours lecture
Overview of the subject of planning an owner's estate, including a review of the customary means of accomplishing estate planning objectives including wills, trusts, taxation, asset protection, and gift-giving programs. (CSU)

PARA-146
Probate and Administration of Estates **1 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
1.0 hours lecture
Overview of Probate and Administration of Estates, including the law of wills, estates and estate administration including testate and intestate estates, and the law of descent and distribution will be discussed as well as conservatorships. (CSU)

PARA-150
Family Law (Divorce, Separation, Nullity, and Paternity) 2 UNITS
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
Recommended Preparation: Familiarity with Canvas learning platform, basic computing
2.0 hours lecture
Family law matters such as legal separation, dissolution of marriage, nullity and paternity are included. The law in California regulating such matters and the drafting of appropriate documents will be emphasized. (CSU)

PARA-151
Family Law (Custody, Visitation, Support) 1 UNITS
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
Recommended Preparation: PARA 150
1.0 hours lecture
This course will cover Family Law matters such as child custody and visitation, child and spousal support are included. California law regulating these matters and the drafting of appropriate documents will be emphasized. (CSU)

PARA-160
Personal Injury 1 UNITS
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
1.0 hours lecture
Study of the essentials of tort actions with an emphasis on personal injury and other forms of negligence. Special attention will be given to the elements of a cause of action in negligence. Theories of recovery, defenses, case handling, witness interviewing, working with insurance carriers, and evidence requirements under current California law will be reviewed. Students will review the particular ethical constraints on personal injury paralegals. (CSU)

PARA-170
Workers' Compensation 1 UNITS
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
1.0 hours lecture
Overview of California's Workers' Compensation statutes, including the concept of no-fault insurance and the administration of contested compensation claims for death, disability, and vocational rehabilitation. Students will compute awards based upon current benefit formulae. (CSU)

PARA-175
Electronic Discovery: Fundamentals and Procedure 1 UNITS
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
Recommended Preparation: PARA 110
1.0 hours lecture
This course explores the developing issues, rules and practices involving the application of e-discovery in litigation and general practice. Students will learn about the evolution of electronic discovery, its current use, and how the rules of civil procedure, evidence and case law affect this aspect of litigation. This course will deal with matters a paralegal and the legal team should consider when handling Electronically Stored Information (ESI) prior to and during the litigation process as well as managing the cost of production and processing. Students will study the distinctions in applicable Federal and California laws and study the ethics issues implicit in e-discovery. (CSU)

PARA-176
Electronic Discovery: Advanced Practice 2 UNITS
Prerequisite: "C" grade or higher or "Pass" in PARA 175 or equivalent
2.0 hours lecture
This course explores advanced practices involving the application of e-discovery in litigation and general practice. This course provides training on advanced eDiscovery processes and software programs. Students are introduced to a variety of commonly used eDiscovery applications and how to use these tools in practice. Students will also study ethics issues implicit in e-discovery. (CSU)

PARA-180
Introduction to Immigration Law 2 UNITS
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
Recommended Preparation: Familiarity with Canvas learning platform, basic computing, rudimentary understanding of sources of law
2.0 hours lecture
Overview of the subject of immigration law, including historical background, nonimmigrant visas, asylum and other humanitarian relief, Family sponsored immigration, employment sponsored immigration, grounds of inadmissibility and deportation, Immigration Court Practice, Citizenship and Naturalization, and immigration enforcement. (CSU)

PARA-199
Special Studies or Projects in Paralegal Studies 1-3 UNITS
Individual study, research or projects under instructor guidance. Written reports and periodic conferences required. Content and unit credit to be determined by student/instructor conferences and the Office of Instruction. May be repeated with different content for a maximum of 9 units. 48-54 hours (1 unit), 96-108 hours (2 units), 144-162 hours (3 units).

PARA-250
Internship 1-4 UNITS
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
Practical work experience in a cooperating law office or corporate legal department. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of nine units in Paralegal. 54 hours paid or unpaid work experience per unit, 1-4 units. (CSU)

PARA-251
Paralegal Studies Practicum 1 UNITS
Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent and completion of 18 units with a "C" grade or higher or "Pass" from the following: PARA 100, 110, 120, 121, 125, 130, 135, 140, 145, 146, 150, 151, 160, 170, 175, 176
1.0 hours lecture
This course is designed to give students a simulated law office experience providing an opportunity to practice and demonstrate skills appropriate to typical paralegal environment in a classroom setting. Students will be completing tasks and receiving feedback much as they would in an actual law office to make connections from the classroom environment to skills required on the job building a more comprehensive understanding of their role in a legal environment. (CSU)

Personal Development-Success Services (PDSS)

PDSS-081
Self-Advocacy **1 UNITS**
1.0 hours lecture
Designed for students who want to learn more about self-advocacy. Involves prescriptive instruction emphasizing personal empowerment, support systems, understanding one's strengths, and legal and ethical issues including awareness of disabilities. May be repeated for a maximum of 4 units. Pass/No Pass only. Non-degree applicable.

PDSS-085
Adapted Computer Basics **1 UNITS**
1.0 hours lecture, 1.0 hours laboratory
Individualized course of study for students with disabilities. Designed to acquaint students with basic assistive technology and techniques that may improve their ability to participate in general activities, programs and classes offered by the college and improve their potential for success in college. May be taken for a maximum of 4 times. Pass/No Pass only. Non-degree applicable.

PDSS-096
Cognitive Communication Skills and Strategies **1 UNITS**
1.0 hours lecture
Students with cognitive communication deficits will receive specialized instruction in attention, concentration, thought organization, memory strategies, social pragmatics skills, organization and time management skills, and maximizing related communication skills. The course emphasizes the development of skills and functional compensatory strategies to enhance disabled students' opportunities for academic success. May be taken for a maximum of 4 units. Pass/No Pass only. Non-degree applicable.

Philosophy (PHIL)

PHIL-110
A General Introduction to Philosophy **3 UNITS**
3.0 hours lecture
In this basic orientation, students will explore, compare, analyze, evaluate and discuss a variety of principle questions addressed in philosophy, such as: What is the purpose of my existence? Can I know anything with certainty? Do I really have a free will? Can we prove that God exists? Why should I be moral? Whose self-interest counts? Issues covered will encompass relevant philosophical perspectives from Western and other major world cultures, and include contributions of women and minority cultures to the realm of philosophy. (C-ID PHIL 100) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

PHIL-115
History of Philosophy I: Ancient and Medieval **3 UNITS**
3.0 hours lecture
This course will lead the student through a survey of ancient philosophy, with an emphasis on the development of philosophical thought from the Pre-Socratics through Plato and Aristotle, to the medieval period. The course will address how the questions themselves developed throughout this period, and how the approaches to answering those questions changed as well. (C-ID PHIL 130) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

PHIL-117
History of Philosophy II: Modern and Contemporary **3 UNITS**
3.0 hours lecture
This course will lead the student through a survey of philosophy from the Renaissance to the 21st century, with an emphasis on how modern scientific processes contributed to the development of empiricism, rationalism, and idealism. The course will address how modern thinkers approached traditional questions, often leading to new questions as well as new ways of attempting to answer them. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

PHIL-125
Critical Thinking and Philosophical Composition **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ENGL C1000 or ESL 122 or equivalent
3.0 hours lecture
In this course, students will philosophically examine and write about a diverse array of historical and contemporary human experiences, including but not limited to metaphysical assumptions of race, class, and gender, for example, which have implications for knowledge, ethics, aesthetics, justice, and existential meaning. Students will generate argumentative theses and refine essay length sustained complex arguments. Topics to be explored include principles of deduction and induction, logical fallacies in language and thought, fact versus judgment, science and superstition, and how to overcome cognitive biases in thought and writing. This Philosophy seminar is designed to enhance the student's critical thinking, writing, and research skills in preparation for upper division academic activity. (CSU/UC) (AA/AS-1B, Cal-GETC-1B)

PHIL-130
Logic **3 UNITS**
3.0 hours lecture
This course teaches "correct thinking" by looking at the various conclusions or "inferences" we make about things based on the information we're given. These inferences are either deductive or inductive. Deductive inferences are the kinds of conclusions we make that follow with strict necessity, much like the answers we get in math. For example, if there were two oranges and two apples on the table, we could "deduce" there are four pieces of fruit on the table with 100% certainty. Inductive inferences, on the other hand, are the kinds of conclusions we arrive at with varying degrees of probability. They're less certain, but usually more interesting and problematic than deductive inferences. For example, an inductive inference would be seeing dark clouds in the sky and concluding it will soon rain. It's not 100% certain, but more or less likely. Being able to understand the nature of these inferences, the rules behind them, and the many mistakes we make in arriving at them is crucial for evaluating the arguments of others and for developing arguments of our own. This course will explore the methods used to determine how to make good arguments as well as the ways to avoid making bad ones. (CSU/UC) (AA/AS-2)

PHIL-140
Problems in Ethics **3 UNITS**
3.0 hours lecture
Study of values as they affect the individual and society. Conduct as expressed by ethical standards and natural law, problems and theories of beauty and value. (C-ID PHIL 120) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

PHIL-141
Bioethics **3 UNITS**
3.0 hours lecture
In this orientation to biomedical ethics, students will explore ethical dilemmas common in the medical field including but not limited to organ transplantation, the use of human beings and animals in research, genetic and reproductive technologies, abortion, euthanasia, and delivering healthcare. By considering how concepts such as justice, patient autonomy, caring, truth-telling, and resource allocation figure into such ethical dilemmas, the student will analyze various works of philosophical, literary, cultural and historical importance and develop an appreciation for how they relate to ethical decision making in the bio-medical field. (CSU/UC) (AA/AS-3)

Physics (PHYC)

PHYC-110
Introductory Physics **4 UNITS**
3.0 hours lecture, 3.0 hours laboratory
Simple treatment of basic physics principles and phenomena with an emphasis on relating them to events and processes of everyday living. Study of the description and cause of various kinds of motion, conservation laws, hot and cold bodies with heat exchange, sound in music and hearing, light and color perception, electricity and some of its practical uses, observation of atomic particles from radiation sources, and other subjects. There is no math prerequisite; the main emphasis is on understanding the concepts rather than doing many mathematical manipulations. (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

PHYC-130
Fundamentals of Physics **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" or concurrent enrollment in MATH C2210 (formerly MATH 180) or equivalent
3.0 hours lecture, 3.0 hours laboratory
A mathematical and philosophical introduction to basic physical phenomena including force, linear and rotational motion, momentum, work and energy, simple harmonic motion and wave behavior, heat and thermodynamics using calculum, trigonometry and algebra-based problem solving. Laboratory experience is an integral part of this course. (C-ID PHYS 105, C-ID PHYS 100S(with PHYC 131)) (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

PHYC-131
Fundamentals of Physics **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PHYC 130 or equivalent
3.0 hours lecture, 3.0 hours laboratory
A mathematical and philosophical introduction to basic physical phenomena including electricity, magnetism, optics and modern physics using calculus, trigonometry and algebra-based problem solving. Laboratory experience is an integral part of this course. (C-ID PHYS 110, C-ID PHYS 100S(with PHYC 130)) (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

PHYC-201
Mechanics and Waves **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in MATH C2210 (formerly MATH 180) or equivalent
4.0 hours lecture, 3.0 hours laboratory
This is the first course of a three-semester, calculus level sequence of physics courses designed for engineering, physics, mathematics, and science majors. The course assumes no previous physics study, but makes extensive use of algebra, trigonometry, geometry, and calculus. Topics include linear and rotational kinematics and dynamics, energy and energy conservation, linear and angular momentum and their conservation laws, fluid dynamics, and gravitation, and wave motion. (C-ID PHYS 205, C-ID PHYS 200S (with PHYC 202, 203)) (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

PHYC-202
Electricity, Magnetism, and Heat **5 UNITS**
Prerequisite: "C" grade or higher or "pass" in PHYC 201 or equivalent; and "C" grade or higher or pass or concurrent enrollment in MATH C2220 (formerly MATH 280) or equivalent
4.0 hours lecture, 3.0 hours laboratory
This is the second course of a three-semester, calculus level sequence of physics courses designed for engineering, physics, mathematics, and science students. The topics of heat, electricity, and magnetism are introduced at the beginning level with reliance upon students' ability to apply topics introduced in Physics 201 The laboratory provides emphasis on measurements using gas laws and of electric and magnetic fields, DC and AC circuits, and oscilloscope techniques. (C-ID PHYS 210, C-ID PHYS 200S (with PHYC 201, 203)) (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

PHYC-203
Light, Optics, and Modern Physics **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PHYSICS 202 or equivalent; and "C" grade or higher or "Pass" or concurrent enrollment in MATH 281 or equivalent
4.0 hours lecture, 3.0 hours laboratory
This is the third course of a three-semester, calculus level sequence of physics courses designed for engineering, physics, mathematics, and science students. The topics of optics, quantum mechanics, special relativity, and atomic and nuclear physics are introduced at the beginning level with reliance upon ability to apply topics introduced in Physics 201 and Physics 202. The laboratory provides experiments in optics, interference and diffraction, and nuclear physics. (C-ID PHYS 215, C-ID PHYS 200S (with PHYC 201, 202)) (CSU/UC) (AA/AS-5, Cal-GETC-5A,5C)

Political Science (POLS)

POLS-C1000
American Government and Politics **3 UNITS**
3.0 hours lecture
This course is an introduction to government and politics in the United States and California. Students examine the constitutions, structure, and operation of governing institutions, civil liberties and civil rights, political behaviors, political issues, and public policy using political science theory and methodology. Analysis of the evolution of the structures and functions of the U.S. and California political systems from the time of the nation's founding to the present day. Emphasis is on the dynamic nature of the American political experience and how that experience impacts the functioning of the U.S. political system. The course will also explore the larger cultural, economic, and sociological forces shaping the U.S. political system. In addition, the development and evolution of the U.S. Constitution and policy making role of traditional political institutions such as the presidency, the Congress, and the judiciary will be explored. Finally, the impact of other political forces such as mass movements, the media, the bureaucracy, interest groups, and ethnic and social groups will be examined. Topics will be illustrated through reference to current political events. Formerly POSC 121. Not open to students with credit in POSC 121. (C-ID POLS 110) (CSU/UC) (AA/AS-4, Cal-GETC-4)

Common Course Numbering

POLS-C1000 American Government and Politics is part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage (https://www.gcccd.edu/ccn/).

Political Science (POSC)

POSC-120
Introduction to Politics and Political Analysis **3 UNITS**
3.0 hours lecture
The primary aim of this course is to assist the student/citizen in the development of a set of skills which can be helpful in analyzing political situations in the world today. In order to accomplish this objective, students will be introduced to the basic approaches, perspectives, techniques and models of the political scientist. Accordingly, this course covers some universal aspects of political stability and change, ideologies, conflicts, institutions, political economy and issues. (C-ID POLS 150) (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-124
Introduction to Comparative Government and Politics **3 UNITS**
3.0 hours lecture
Analysis of the political systems of selected developed, transitional and developing countries of the world in order to understand the importance of political development, political institutions, political culture, political actors, political processes, and political change for the dynamics of today's global society. (C-ID POLS 130) (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-130
Introduction to International Relations **3 UNITS**
3.0 hours lecture
Survey of the field of international relations. Students will be introduced to the major theories of international relations and will learn to apply them to contemporary problems in world politics. Issues examined include global peace and security, international political economy, international law and organization, sustainable development, and human rights. (C-ID POLS 140) (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-140
Introduction to California Governments and Politics **3 UNITS**
3.0 hours lecture
Examination of the structure and functions of California state and local governments and politics. Attention will be given to the evolution of the principal features, organization, and operation of state and local governments within the framework of U.S. federalism from the time of the nation's founding. Emphasis is on the role of significant events, major ethnic groups, and major social groups in the development of the political structures and processes of California state and local governments and contemporary political issues. (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-145
Introduction to Latin American Government and Politics **3 UNITS**
3.0 hours lecture
This course provides an analysis of the politics and governance of selected Latin American countries. The course examines political and economic development of Latin America from independence to the present, structure and organization of governments, political participation, the role of religion, and civil-military relations. In addition, major developments in the area of political modernization, democratization, economic growth and modernization, questions of race and identity, and U.S.-Latin American Relations will be explored. (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-147
Introduction to Middle East Government and Politics **3 UNITS**
3.0 hours lecture
This course introduces students to the politics and governance of the Middle East and North Africa. The course will cover the political, social, and economic development of specific countries in the region, conflict, revolution, key individuals, armed conflicts, the role of Islam, Judaism, and Christians, and the role of foreign powers in shaping the politics of the region. The course begins with the origins of the Modern Middle East from the collapse of the Ottoman Empire and the First World War (1914-1918), the consequences of the Ottoman Empire's collapse, the rise of the modern nation-state, the role of oil in politics and economic development, Westernization and the Islamic resurgence, and nationalism. The curriculum proceeds to a study of armed conflicts in the region, including, but not limited to, the Arab-Israeli conflict, The War on Terror, and U.S. Foreign Policy in the Middle East. (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-148
American Foreign Policy **3 UNITS**
3.0 hours lecture
This course offers an introduction to American Foreign Policy since World War II. The course provides a chronological assessment of the American decision-making process, key actors, and events in pursuit of American national security, economic, and moral interest from the Cold War to the present era. The course will explore American foreign policy in specific regions of the world including Europe, Asia, the Middle East, Latin America, and Africa while seeking greater understanding of the questions of war and peace, democracy promotion, human rights, economic development, the War on Terror, and the emergence of great power rivalry in the 21st century. (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-150
Introduction to Political Theory **3 UNITS**
Recommended Preparation: A "C" grade or higher or "Pass" in POSC 120 or PHIL 110 or equivalent.
3.0 hours lecture
A comparative and conceptual analysis of the principal ideological and philosophical approaches to government. This course surveys the important political ideas and alternatives which have been suggested from ancient to modern times. A major emphasis of the course will be to introduce and clarify for the student the basic aspects of nationalism, democracy, Orthodox Marxism, anarchism, philosophical conservatism, New Left thought and fascism. (C-ID POLS 120) (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-165
Introduction to the Politics of Race and Gender **3 UNITS**
3.0 hours lecture
This course is an introduction to the politics of race and gender. The course offers an overview of the identity, status, and power of Women, Native Americans, African Americans, Latina/o Americans, and Asian Americans from an intersectionality perspective. (C-ID POLS-170) (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-166
Introduction to Native American Politics and Policy **3 UNITS**
3.0 hours lecture
This course introduces students to Native American politics and policy from the treaty making process that formed the foundation of contemporary tribal sovereignty to legal cases and precedents that impact Native American lands and people. The course will also explore how Native people have both petitioned for access into the American polity and actively resisted assimilation. Emphasis will be given to twelve recognized Kumeyaay tribal governments in the United States and four recognized Kumeyaay/Kumiai tribal governments in Baja California, Mexico. Also listed as KUMY 166. Not open to students with credit in KUMY 166. (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-170
Introduction to Political Science Research Methods **3 UNITS**
3.0 hours lecture
This course welcomes students to the scientific study of politics, research ethics, theory construction and hypothesis generation, research design, conceptualization, operationalization, and measurement of political concepts, and data collection and management of political data. Students will be guided through qualitative and quantitative empirical analyses, which includes interpreting results of regression models for binary, ordinal, categorical, and count outcomes. (C-ID POLS 160) (CSU/UC) (AA/AS-4, Cal-GETC-4)

POSC-180
Introduction to Public Policy **3 UNITS**
3.0 hours lecture
This course focuses on public policy, including the policy process: problem identification, policy analysis, strategy and policy development, policy enactment, and policy implementation. The course will examine the application of these concepts to policy areas, such as children, families, and communities, criminal justice, democracy and voting rights, economic and budgetary, education and literacy, energy and environment, health and human services, immigrant rights, infrastructure and transportation, mobility and opportunity, science and technology, and water. (CSU/UC) (AA/AS-4, Cal-GETC-4)

Common Course Numbering

POSC-121 Introduction to U.S. Government and Politics has been changed to POLS-C1000 American Government and Politics. See Political Science (POLS) Course Description page of the catalog.

Psychology (PSY)

PSY-119
Psychology of Gender **3 UNITS**
3.0 hours lecture
This course provides an in-depth exploration of the psychological experiences of people, with a focus on understanding how sex and gender intersect with race, ethnicity, sexuality, class, size, ability, and other identity factors. Students will engage with a comprehensive examination of the biological, historical, social, and cultural factors that influence the lives, identities, and experiences of people with diverse backgrounds. Through an intersectional lens, the course will analyze how these factors shape personalities, behaviors, worldviews, perceptions, and self-concepts. The course will focus on a variety of topics within the broader social and cultural context, including but not limited to: gender-role stereotypes; socialization practices; biological understandings of sex; as well as issues related to health, work, violence, reproduction, and caregiving. Also listed as GEND 119. Not open to students with credit in GEND 119. (CSU/UC) (AA/AS-4)

PSY-121
Introduction to Sport, Exercise, and Performance Psychology **3 UNITS**
3.0 hours lecture
This course provides an introduction to the theoretical and practical application of psychological factors associated with sport, exercise, and performance. Topics include historical and theoretical perspectives, current theories and research in cognitive, behavioral, and social-psychological factors related to concepts of understanding athlete, coach, and spectator behavior in the sport setting. Examination of factors and social constructs influencing exercise participation, management of unhealthy behaviors, and adherence to programs focused on therapeutic benefits that help enhance overall health. Outcomes associated with performance, techniques for optimizing performance, youth, aging, and gender issues, and applications in a variety of career settings will be discussed. Also listed as ES 121. Not open to students with credit in ES 121. (CSU/UC) (AA/AS-4)

PSY-125
Cross-Cultural Psychology **3 UNITS**
3.0 hours lecture
Introduction to theories and research findings regarding cultural influences on human behavior and cognitive processes (lifespan development, abnormal behavior and mental health, drug use, self-concept, emotion, gender schemas and gender roles, social behavior, perception, learning, intelligence and memory). By providing students with a non-judgmental understanding of how culture influences human behavior, they will be more equipped to interact in a world where there is increasing contact among different cultures. (CSU/UC) (AA/AS-4, Cal-GETC-4)

PSY-132
Psychology of Health **3 UNITS**
3.0 hours lecture
The goal of health psychology is to understand the psychological influences on health behavior, including promotion, maintenance, prevention and treatment. The course will focus on the etiology and correlates of health and illness, as well as analyze the health care system and the formulation of health and illness, as well as analyze the health care system and the formulation of health policies within the United States. Specific emphasis will be placed on exploring health disparities among historically underrepresented groups, including African Americans, Native Americans, Asian Americans, and Latino/a/x Americans. (CSU/UC) (AA/AS-4,7A)

PSY-134
Human Sexuality **3 UNITS**
3.0 hours lecture
Review of the biological, psychological and social aspects of human sexuality including sexuality throughout the lifespan, gender identity, individual and cultural variations, sexual orientation, communication and relationships, sex therapy, sex roles, contraception, and sexually transmitted infections (STIs). (C-ID PSY 130) (CSU/UC) (AA/AS-4,7A, Cal-GETC-4)

PSY-138
Social Psychology **3 UNITS**
3.0 hours lecture
Examination of the individual's perception of and reaction to other people and social influences. Topics such as attitude formation, prejudice and discrimination, helping behavior, aggression, conformity, obedience, cooperation and conflict reduction, and group behavior are explored. Also listed as SOC 138. Not open to students with credit in SOC 138. (C-ID PSY 170) (CSU/UC) (AA/AS-4, Cal-GETC-4)

PSY-140
Physiological Psychology **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PSYC C1000 (formerly PSY 120) or equivalent
3.0 hours lecture
Examination of the relationships between bodily processes and aspects of behavior. Review of fundamental research methods and major research findings in physiological psychology. Application of experimental methods in psychology, physiology and related disciplines to the understanding of perceptual processes, the control of movement, sleep and waking, reproductive behaviors, ingestive behaviors, emotion, learning, language and mental disorders are explored. (C-ID PSY 150) (CSU/UC) (AA/AS-4,7A, Cal-GETC-4)

PSY-150
Developmental Psychology **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PSYC C1000 (formerly PSY 120) or equivalent
3.0 hours lecture
Overview of psychological research and theory involving the lifespan approach to human behavior and cognition. Explores the biological, emotional, social and cognitive development from infancy through childhood, adolescence and adulthood. Topics include influences of drugs and disease on prenatal development, child-rearing methods, temperaments and personality, childhood disorders, development of language and thinking, gender roles, friendship, family and relationships, parenting, and aging. Not open to students with credit in PSY 165. (C-ID PSY 180) (CSU/UC) (AA/AS-4,7A, Cal-GETC-4)

PSY-170
Abnormal Psychology **3 UNITS**
3.0 hours lecture
Overview of psychological research and theory involving the causes and treatment of abnormal behavior. The major disorders include anxiety disorders (such as phobias, panic attacks, obsessive-compulsive), mood disorders (such as depression and bipolar), schizophrenic disorders, and personality disorders. Also includes child/adolescence disorders (such as ADHD and eating disorders), substance abuse, mental retardation, sexual disorders, and the effects of stress on the body. (C-ID PSY 120) (CSU/UC) (AA/AS-4, Cal-GETC-4)

PSY-201
Academic and Career Opportunities in Psychology **1 UNITS**
Prerequisite: "C" grade or higher in PSYC C1000 (formerly PSY 120) or equivalent
1.0 hours lecture
The study of career options in the field of Psychology. Emphasis is placed on the needs of Psychology majors identifying career-related strengths and interests while providing information on post-baccalaureate options in psychology and related fields, and identification of career-related strengths and interest. Recommended after completion of thirty (30) units. Pass/ No Pass only. (CSU)

PSY-205
Research Methods in Psychology **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PSYC C1000 (formerly PSY 120) and PSY 215 or equivalent
3.5 hours lecture, 1.5 hours laboratory
Introduction to scientific methodology in psychology. Emphasis is placed on descriptive, experimental, and applied research. Students will learn the American Psychological Association writing style for empirical report writing. This course is intended for psychology majors and behavioral science students interested in the processes of research. The laboratory component of this course is designed to complement the lectures and allow each student to design and conduct a psychological research study. (C-ID PSY 200) (CSU/UC)

PSY-211
Cognitive Psychology **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PSYC C1000 (formerly PSY 120) or equivalent
3.0 hours lecture
A general introduction to the principles of cognition. This course examines theoretical and research approaches to the study of cognitive neuroscience, perception, attention, memory, knowledge, visual imagery, language acquisition and development, problem solving and decision making. (CSU/UC) (AA/AS-4, Cal-GETC-4)

PSY-215
Statistics for the Behavioral Sciences **4 UNITS**
Prerequisite: Appropriate placement or Intermediate Algebra
3.5 hours lecture, 1.5 hours laboratory
Methods and experience in defining and solving quantitative problems in the behavioral sciences. Emphasis is on the design of experiments and the application of a variety of parametric and nonparametric techniques to the analysis of data. (C-ID SOCI 125) (CSU/UC) (AA/AS-2, Cal-GETC-2)

PSY-220
Learning **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in PSYC C1000 (formerly PSY 120) or equivalent
3.0 hours lecture
Examination of the basic principles and research in animal and human learning. (CSU/UC) (AA/AS-4,7A, Cal-GETC-4)

Common Course Numbering

PSY-120 Introductory Psychology has been changed to PSYC-C1000 Introduction to Psychology. See Psychology (PSYC) Course Description page of the catalog.

Psychology (PSYC)

PSYC-C1000
Introduction to Psychology **3 UNITS**
Recommended Preparation: Eligibility for college-level writing (C-ID ENGL 100) and reading (a course with an existing skill of ability to read a college level text)
3.0 hours lecture
This course is an introduction to psychology, which is the study of the mind and behavior. Students focus on theories and concepts of biological, cognitive, developmental, environmental, social, and cultural influences; their applications; and their research foundations. Introduction to the facts and theories which seek to explain and understand human thought and behavior including such topics as personality, psychotherapy, learning, memory, interpersonal relationships, adjustment and biological influences. Formerly PSY 120. Not open to students with credit in PSY 120. (C-ID PSY 110) (CSU/UC) (AA/AS-4, Cal-GETC-4)

Common Course Numbering

PSYC-C1000 Introduction to Psychology is part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage (https://www.gcccd.edu/ccn/).

Real Estate (RE)

RE-190
Real Estate Principles **3 UNITS**
3.0 hours lecture
Real Estate Principles is a fundamental real estate course covering the basic laws and principles of California real estate. It provides the student with understanding, background and the terminology necessary for advanced study in further specialized real estate courses. This course will benefit both the consumer and career-minded individual. It is designed to be of assistance to those preparing for the real estate license examination. (CSU)

RE-191
Real Estate Practice **3 UNITS**
3.0 hours lecture
This course is designed to teach the day-to-day operations in real estate practices. Topics will cover listing, prospecting, advertising, financing, sales techniques, escrow, technology, and ethics. Students will have the opportunity to experience tasks typical in a Real Estate practice. RE 191 is SB1495 compliant. Cal. Bus. & Prof. Code §10151. (CSU)

RE-192
Real Estate Finance **3 UNITS**
3.0 hours lecture
Analysis of real estate financing including lending policies and problems in financing transactions in residential, apartment, commercial and special purpose properties. Methods of financing properties are emphasized. (CSU)

RE-193
Real Estate Legal Aspects **3 UNITS**
3.0 hours lecture
Study of the law governing real property, its sale, lease, hypothecation or other conveyance. Instruments utilized in conveyance or lease of such property will be examined. (CSU)

RE-194
Real Estate Appraisal **3 UNITS**
3.0 hours lecture
Introductory course covering the purposes of appraisals, the appraisal process, and the different approaches, methods and techniques used to determine the value of various types of property. Emphasis is on residential and single-unit property. (CSU)

RE-197
Real Estate Economics **3 UNITS**
3.0 hours lecture
Study of the economic factors which determine the market and location of real property investments. (CSU)

RE-201
Real Estate Property Management **3 UNITS**
3.0 hours lecture
Study of property management and problem areas associated with operating income-producing property. (CSU)

RE-250
Real Estate Internship **1-4 UNITS**
Practical work experience in the real estate industry. Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of twelve units in Real Estate. 54 hours paid or unpaid work experience per unit, 1-4 units. (CSU)

Religious Studies (RELG)

RELG-120
World Religions **3 UNITS**
3.0 hours lecture
Introduction to the teachings, major figures, attitudes and practices of world religions. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

RELG-135
Religion in the Middle East **3 UNITS**
3.0 hours lecture
In this course students will learn about the diverse religious traditions and communities of the Middle East. The course examines how religion has significantly influenced the societies, cultures, political institutions, gender roles, legal codes, and economies of various regions in the Middle East, particularly Iraq, Egypt, the Arabian Peninsula, Palestine, Iran, Syria, Turkey, Lebanon, and Israel. Special attention will be paid to the role of religion as a force of stability and instability in the region, a significant marker of identity, the status of religious minorities, and the challenge of nationhood. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

RELG-170
Introduction to Christianity **3 UNITS**
3.0 hours lecture
This course will provide an introduction to the Christian religion, with a focus on the history of its development. Its scriptures, rituals, and beliefs will be examined, as well as important persons, groups, and events which have developed among the Roman, Orthodox, and Protestant communities of Christianity. (CSU/UC) (AA/AS-3, Cal-GETC-3B)

RELG-175
Religion, Government and Politics in America **3 UNITS**
3.0 hours lecture
This course analyzes the relations between religion, religious communities, and political institutions in the United States and California. The course examines political institutions and processes set out in the U.S. and California Constitutions and the ways that religion and religious communities and political institutions and processes have shaped one another, especially related to the rights and duties of citizenship. Topics include: U.S. Constitution and policy making related to the presidency, Congress, and the judiciary; freedom of religion; civil rights and citizenship; the role of religion in war and domestic and foreign policy; and Constitutional documents as sources of civil religion, religion and immigration, separation of church and state, and religion in public education. (CSU/UC) (AA/AS-4, Cal-GETC-4)

Social Work (SW)

SW-100
Introduction to Social Work **3 UNITS**
3.0 hours lecture
This course introduces students to social welfare and social work, using a social problems approach to describe how poverty, child abuse, substance abuse, health and mental health issues, sexism, racism, other forms of discrimination, crime and other social issues affect people. It provides you with a framework for analyzing policy issues, for evaluating social services, and for making informed decisions about social issues. You are asked to visit, or volunteer at, a social service agency to observe and report on how social workers attempt to assess and address social problems. Formerly SW 120. Not open to students with credit in SW 120. (CSU)

SW-110
Social Work Fields of Service **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in SW 100 (formerly SW 120) or PSYC C1000
3.0 hours lecture
This course introduces students to the major fields of social work practice and explores the societal institutions that provide social services. Through a supervised field experience in a community based agency or similar setting, you will identify and understand the implications of social work practice with diverse populations and within social service institutions. You will identify, develop, and practice strategies for fulfilling the professional responsibility of the social worker to create an equitable society. Accordingly, students will complete a 40-hour internship approved by the instructor. (CSU)

SW-130
Introduction to Case Management **3 UNITS**
3.0 hours lecture
This course is designed to provide the student with fundamental skills regarding the importance of case management as a practice skill for social workers and other healthcare professionals. Students will gain knowledge on effective micro, mezzo, and macro systems service delivery. Students will use a strength-based, ecological model to a joint solution-oriented process and explore factors affecting case management today including federal and state legislation, technology, new service delivery models, and the resulting ethical and legal dilemmas. There will be a special emphasis on the development of cultural competence and equitable practices when engaging with diverse populations, and the impact of oppression and discrimination on case management services. (CSU)

SW-170
Kumeyaay Conflict Resolution **3 UNITS**
3.0 hours lecture
This course provides an overview of conflict resolution, negotiation, and mediation with an emphasis on Kumeyaay conflict resolution techniques and strategies. In addition, the history and current context surrounding controversial topics and issues within the Kumeyaay community and other Native American groups will be discussed. Topics may include: tribal governance, interpersonal (family and friends), generational (youth/elders), on reservation/off reservation, urban/rural, casinos, blood quantum, education, land, and natural resources (water, etc.). Also listed as KUMY 170. Not open to students with credit in KUMY 170. (CSU/UC) (AA/AS-4)

Sociology (SOC)

SOC-114
Introduction to Race & Ethnicity **3 UNITS**
3.0 hours lecture
An introduction to the sociological analysis of ethnicity, race, and immigration in the United States. Topics include the history of racialized and minoritized groups in the United States, patterns of interaction between racial and ethnic groups, colonialism, immigration, identity formation, prejudice, discrimination, ethnocentrism, racism, institutional racism, social movements for civil rights, liberation and decolonization, and the intersection of race and ethnicity with other forms of difference. Also listed as ETHN 114. Not open to students with credit in ETHN 114. (C-ID SOCI 150) (CSU/UC) (AA/AS-4,6, Cal-GETC-4,6)

SOC-125
Marriage, Family, and Alternative Lifestyles **3 UNITS**
3.0 hours lecture
An introduction to the sociological analysis of families, marriages and intimate relationships. Family life and intimate relationships in contemporary American society are examined from the perspectives of different ethnic and racial groups with a focus on the intersectionality of race, class, gender and sexuality. Emphasis is placed on the analysis of the family's relationship to economic structures, political institutions and belief systems in different socio-cultural and historical contexts. Topics include: history of the family, family diversity and inequality, socialization, sexuality, child and intimate partner violence and abuse, courtship, interracial friendships and romantic relationships, singlehood, marriage, communication patterns, parenting, adoption, divorce, remarriage, step-families, widowhood, aging, and the future of the family. (C-ID SOCI 130) (CSU/UC) (AA/AS-4,7A, Cal-GETC-4)

SOC-130
Contemporary Social Problems **3 UNITS**
3.0 hours lecture
Identification and analysis of contemporary social problems including the role of power and ideology in the definition of social problems, their causes and consequences, evaluations of proposed solutions, and methods of intervention. Additional topics will vary. (C-ID SOCI 115) (CSU/UC) (AA/AS-4, Cal-GETC-4)

SOC-138
Social Psychology **3 UNITS**
3.0 hours lecture
Examination of the individual's perception of and reaction to other people and social influences. Topics such as attitude formation, prejudice and discrimination, helping behavior, aggression, conformity, obedience, cooperation and conflict reduction, and group behavior are explored. Also listed as PSY 138. Not open to students with credit in PSY 138. (C-ID PSY 170) (CSU/UC) (AA/AS-4, Cal-GETC-4)

SOC-140
Sex and Gender Across Cultures **3 UNITS**
3.0 hours lecture
An introduction to the sociological analysis of sex, gender, and sexual orientation in a variety of socioeconomic and cultural contexts. The course examines the impact sex, gender, and sexual orientation have on the lives of men and women from different cultures in the areas of work, ethnicity, kinship, sexuality, politics, religion, health, arts, sports and communication. Gender and sexual relations in the contemporary USA are examined from the perspectives of different ethnic and racial groups. (C-ID SOCI 140) (CSU/UC) (AA/AS-4, Cal-GETC-4)

SOC-150
Latinx Communities in the United States **3 UNITS**
3.0 hours lecture
This course is an in-depth sociological examination of Latinx/Hispanic communities in the United States. Topics include family structure, gender roles and sexuality; religion; economics; racialization, racism; intersectionality, social movements; U.S./Mexico border issues and immigration policy; and education. Emphasis is placed on social interactions, politics of identity formation, and social processes impacting the status of U.S. Latinx/Hispanics. This course is intended for sociology majors or any student interested in the social sciences. (CSU/UC) (AA/AS-4, Cal-GETC-4)

Common Course Numbering

SOC-120 Introductory Sociology has been changed to SOCI-C1000 Introduction to Sociology . See Sociology (SOCI) Course Description page of the catalog.

Sociology (SOCI)

SOCI-C1000
Introduction to Sociology **3 UNITS**
3.0 hours lecture
This course introduces students to Sociology: the study of people, groups, and institutions that shape people's lives. Through a mix of theory, research, and real-world examples, students explore key sociological concepts like culture, inequality, power, collective action, and social change. With content reflecting diverse histories and lived experiences, students make connections between their lives and the social forces that influence individual opportunities and choices. Students in this course will develop a critical lens that allows them to better understand and transform themselves and society. Formerly SOC 120. Not open to students with credit in SOC 120. (C-ID SOCI 110) (CSU/UC) (AA/AS-4, Cal-GETC-4)

Common Course Numbering

SOCI-C1000 Introduction to Sociology is part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage (https://www.gcccd.edu/ccn/).

Spanish (SPAN)

SPAN-120
Spanish I **5 UNITS**
5.0 hours lecture
Introduction to the Spanish language and the cultures of its speakers. Designed for students with very little or no knowledge of Spanish. Facilitates the practical application of the language in everyday oral and written communication at the beginning level. Since the focus will be on basic communication skills, the class will be conducted in Spanish as much as possible. Students will learn structures that will enable them to function in Spanish in everyday contexts while becoming familiar with the Spanish speaking world. (C-ID SPAN 100) (CSU/UC) (AA/AS-3)

SPAN-121
Spanish II **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in SPAN 120 or two years of high school Spanish or equivalent
5.0 hours lecture
Continuation of SPAN 120. Continues to develop oral and written skills based on practical everyday needs. (C-ID SPAN 110) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

SPAN-141
Spanish and Latin American Cultures **3 UNITS**
3.0 hours lecture
Survey of the major characteristics of Spanish, Latin American and Chicano cultures as reflected in literature, the arts, philosophy, and folklore. Topics include the lived experiences; traditions; family structure and gender roles; racialization and discrimination; social stratification; social struggles that led to emigration; and contributions of Spanish, Latin American, and Chicano cultures in the United States. (CSU/UC) (AA/AS-3)

SPAN-145
Hispanic Civilizations **3 UNITS**
3.0 hours lecture
General overview of the characteristics and cultures of civilizations of Spanish speaking countries as reflected in literature, philosophy, architecture, and the arts of Spain and Latin American countries. This course will have an emphasis on a selected Spanish speaking country or countries. Topics include the lived experiences; traditions; family structure and gender roles; racialization and discrimination; social stratification; social movements; social struggles that led to emigration; and contributions of the selected country or countries in the United States. (CSU/UC) (AA/AS-3)

SPAN-220
Spanish III **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in SPAN 121 or three years of high school Spanish or equivalent
5.0 hours lecture
Continuation of SPAN 121. Continues to develop oral, listening, reading and writing skills in order to acquire proficiency in Spanish. (C-ID SPAN 200) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

SPAN-221
Spanish IV **5 UNITS**
Prerequisite: "C" grade or higher or "Pass" in SPAN 220 or four years of high school Spanish or equivalent
5.0 hours lecture
Continuation of SPAN 220. Continues to develop oral, listening, reading and writing skills in order to improve proficiency in Spanish. (C-ID SPAN 210) (CSU/UC) (AA/AS-3, Cal-GETC-3B)

SPAN-250
Conversational Spanish I **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in SPAN 121 or 220 or 221 or three years of high school Spanish or equivalent
3.0 hours lecture
Develop oral, reading, writing and listening skills with an emphasis on oral proficiency. (CSU/UC) (AA/AS-3)

SPAN-251
Conversational Spanish II **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in SPAN 250 or four years of high school Spanish or equivalent
3.0 hours lecture
Continues to develop oral, reading, writing and listening skills with an emphasis on oral proficiency. (CSU/UC) (AA/AS-3)

Statistics (STAT)

STAT-C1000
Introduction to Statistics **4 UNITS**
Prerequisite: Placement as determined by the college's multiple measures assessment process or completion of a course taught at or above the level of intermediate algebra
4.0 hours lecture
This course is an introduction to statistical thinking and processes, including methods and concepts for discovery and decision-making using data. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-squared and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Students apply methods and processes to applications using data from a broad range of disciplines. Formerly MATH 160. Not open to students with credit in MATH 160, PSY 215. (C-ID MATH 110) (CSU/UC) (AA/AS-2, Cal-GETC-2)

STAT-010
Foundations for Introduction to Statistics **2 UNITS**
Prerequisite: Appropriate placement
Corequisite: STAT C1000
2.0 hours lecture
This support course focuses on the skills and concepts needed for success in transfer-level statistics. This course is for students concurrently enrolled in statistics at Cuyamaca College. Students will receive extra support in arithmetic, algebra, problem solving, technology, and study skills. Pass/No Pass only. Non-degree applicable. Formerly MATH 060. Not open to students with credit in MATH 060.

Common Course Numbering

STAT-C1000 Introduction to Statistics is part of Common Course Numbering. For more information, please visit the Grossmont-Cuyamaca Common Course Numbering Webpage (https://www.gcccd.edu/ccn/).

STEM (STEM)

STEM-101
Introduction to College Success in STEM **0.5-1 UNITS**
Corequisite: COUN 101
0.5 hours lecture
New to college? Interested in STEM? This low risk, fun, introductory class will get you connected with the resources to help you succeed at Cuyamaca College while providing a broad survey of what STEM has to offer through engaging, hands-on activities. Students will get to interact with like-minded peers, key STEM faculty, and STEM-specialized counselors. Students will learn about the college, its facilities, services, general education requirements, and certificate, degree, and transfer options in as well as receiving preliminary education planning in a supportive and caring environment. Pass/No Pass only. Non-degree applicable. 0.5 hour lecture (0.5 unit), 1 hour lecture (1 unit).

Surveying (SURV)

SURV-100
Unmanned Aerial System (Drone) Technologies: Safety, Assembly, and Basic Flight **3 UNITS**
Recommended Preparation: The ability to communicate via reading and writing. Basic ability to use computers.
1.5 hours lecture, 4.5 hours laboratory
An introduction to using drones in the field of surveying. Students will learn about FAA regulations to fly commercial drones, safety considerations for operating at a site, how to transport, assemble, and disassemble a drone, and obtain stick time operating and supporting the operation of a drone. (CSU)

SURV-101
Unmanned Aerial System (Drone) Technologies: Data Acquisition and Advanced Flight **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in SURV 100 or equivalent
Recommended Preparation: The ability to communicate via reading and writing. Basic ability to use computers.
1.5 hours lecture, 4.5 hours laboratory
An introduction to using drones to collect data in the field of surveying. Students will learn about different drone payloads used in the surveying field, create flight plans to collect surveying data, manage the collection of surveying data, and quality assurance of data. (CSU)

SURV-102
Unmanned Aerial System (Drone) Technologies: Mapping and Surveying Deliverables **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in SURV 101 and SURV 218 or equivalent and FAA Certified Remote Pilot License
Recommended Preparation: The ability to communicate via reading and writing. Basic ability to use computers.
1.5 hours lecture, 4.5 hours laboratory
The culmination of the Unmanned Aerial System Technologies courses, students will learn how to process collected data from drones to create deliverables for the surveying industry. Students will combine their knowledge from previous courses to complete a mock industry project. The projects will demonstrate the ability of the students to complete an industry project from the start to finish. (CSU)

SURV-127
Survey Drafting Technology **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in CADD 119 or ENGR 119 or equivalent
2.0 hours lecture, 3.0 hours laboratory
Professional Civil Engineering/Surveyor's office method drafting course that applies the basic skills and techniques acquired in CIVIL 3D. Land surveying, land development procedures, legal descriptions, topographical analysis, earthworks, geographic control and subdivision processes will be covered. Also listed as CADD 127. Not open to students with credit in CADD 127. (CSU)

SURV-218
Plane Surveying **4 UNITS**
2.0 hours lecture, 6.0 hours laboratory
Use, care and adjustment of surveying instruments. Fundamental surveying methods, traverse measurements, and area computations. Introduction to horizontal and vertical curves, stadia, and construction layout. Introduction to topographic mapping. Earth work computations. Also listed as ENGR 218. Not open to students with credit in ENGR 218. (CSU/UC)

SURV-220
Boundary Control and Legal Principles **3 UNITS**
Prerequisite: "C" grade or higher or "Pass" in SURV/ENGR 218 or equivalent
3.0 hours lecture
Legal and professional aspects of surveying such as U.S. public land surveys, property surveys, title search, report laws affecting a surveyor, resurveys or surveys based on the deed or record, and the new divisions of land. (CSU)

SURV-240
Advanced Surveying **4 UNITS**
Prerequisite: "C" grade or higher or "Pass" in SURV/ENGR 218 or equivalent
3.0 hours lecture, 3.0 hours laboratory
Topographic, hydrographic and geodetic surveying. Precise equipment and control surveying, city and land surveys. Astronomical observations. State plane coordinates system. Route location and layout, transition, horizontal and vertical curves. Introduction to electronic and photogrammetric methods. U.S. Public Land Surveys and legal descriptions, and an introduction to Global Positioning Systems (G.P.S.). (CSU/UC)

Theatre Arts (THTR)

THTR-110
Introduction to the Theatre **3 UNITS**
3.0 hours lecture
Provides students with the analytic tools of theatre and a working knowledge of all areas included in the process of producing a play. Through lectures, attendance at selected performances, and in-class projects, students will be introduced to the theatre arts as a reflection of the synthesis of the arts and a definition of the humanities in Western Civilization. Recommended for students interested in theatre who want to have a better understanding of how this art form continues to help shape society. (C-ID THTR 111) (CSU/UC) (AA/AS-3, Cal-GETC-3A)

Work Experience (WEX)

WEX-110

General Work Experience Education **1-3 UNITS**

Supervised work experience to assist students in acquiring desirable work habits, transferable soft skills, and career awareness. Jobs may or may not be directly related to students' educational goals. Occupational work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned. May be taken for a maximum of 6 units. 54 paid or unpaid work experience per unit, 1-3 units.

Faculty, Administration and Classified Personnel

Full-Time Faculty & Administration

A

ALVAREZ, MIGUEL
Interim Dean, Career Education

ANDERSEN, RACHEL
Director, Financial Aid
A.A., MiraCosta College
B.A., Biola University, La Mirada
M.S., National University, San Diego

ANNESS, ROBERT
Associate Professor, Chemistry
B.S., Ohio State University
M.A., San Diego State University
Ph.D., San Diego State University/University of California, San Diego

AONEH, ROULA
Assistant Professor, Arabic
M.A., Alliant International University

ARROYO, ANNALINDA
Associate Professor, Mathematics
B.S., San Diego State University
M.S., Rensselaer Polytechnic Institute

AUBRY, MICHAEL
Associate Professor, Business
B.S., San Diego State University
M.B.A., National University
Ph.D., Alliant International University

B

BALAKIAN, ERICA
Vice President, Administrative Services
B.A., California State University, San Marcos
M.B.A., San Diego State University

BARNER, JOHNNY
Associate Professor, Counseling, DSPS
B.A., San Diego State University
M.S., San Diego State University

BEAS-PEREZ, FABIOLA
Assistant Professor, Counseling - Puente
M.S., San Diego State University

BLYUMIN, AMALIYA
Professor, Counseling
B.A., San Diego State University
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