Granada High School

Course Catalog

Pride - Respect - Integrity - Diversity - Excellence

2021-2022

Cover Design by: Noah Britto, Granada High School Student - Class of 2020

Catalog Contents

The Granada High School Course Catalog is designed to help you develop a high school plan that meets your educational needs and career goals and fulfills graduation requirements. The manual includes information about the courses offered at GHS as well as graduation requirements, an individual graduation planning form and a list of four-year college admission requirements. This annual catalog reflects the most current offerings; however, it cannot be assumed that every course listed here is offered each trimester. Brief course descriptions will inform students of the general nature of each course. Students should consider them carefully with a parent or Academic Counselor and decide on a program of study.

Students and parents should review the Graduation & College Entrance Requirements on page 8 and use the 4-year worksheet on the inside back cover to design a successful course of study. Thoughtfully consider your goals and interests in order to make the most appropriate choices suited to your needs. Challenge yourself with a demanding academic plan while balancing it with extracurricular and outside activities.

Using the Course Catalog:.

- Many courses have prerequisites. Identify the prerequisites and plan to take the required classes accordingly.
- A minimum of 12 courses per year is required for grades 9-11. Seniors must request a minimum of 10 courses.
- Students are encouraged to ask their teachers for advice about next year's course selection.

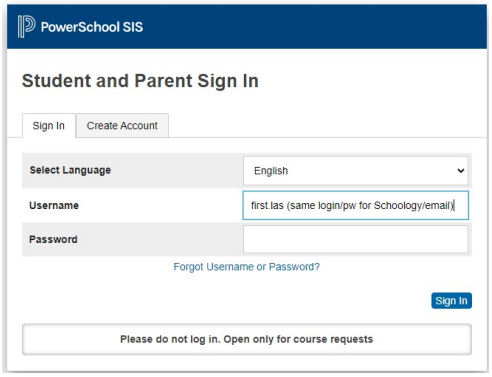
Symbols Used in this Catalog

- (H) = Honors
- (P) = UC/CSU Approved Course
- (AP) = Advanced Placement
- (ROP) = Regional Occupational Program
- (PLTW) = Project Lead the Way
- (IB) = International Baccalaureate
- 1, 2 etc. after a course = classes that may be taken individually, but must be taken sequentially. These courses may be taken in different academic years.
- A/B = courses must be taken in the same academic year
- SL/HL = Standard Level and Higher Level IB courses

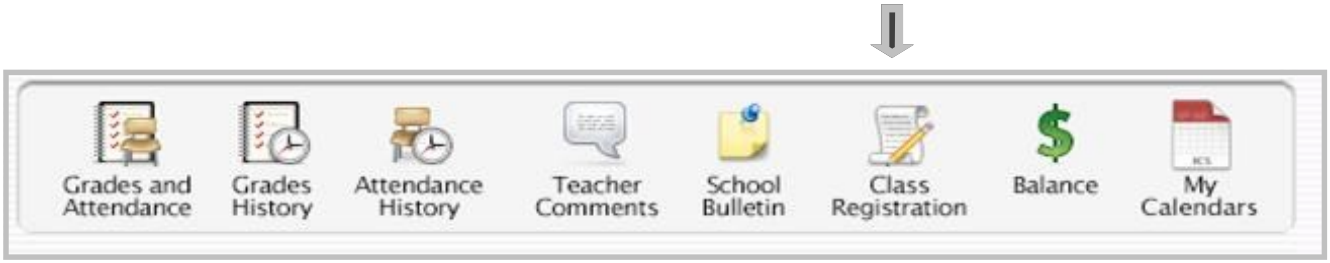
Granada High School
Course Registration for 2021-22

Quick Guide to Online Registration

1. Go to www.livermoreschools.org/granadahigh
2. Select Course Registration for 2021-22 School Year -Incoming and Current Students link beneath the Headlines and Features section located on the home page of our website.
3. Click on Log On to PowerSchool
4. **Current Students:** Enter your LVJUSD/Schoology Username and Password on the screen and press Enter. **Students who are new to LVJUSD will receive login instructions in their course registration materials.**



5. Click on the Class Registration icon
6. **Welcome to the Granada High School Class Registration System for 2021-22**
   - Read and follow the instructions to register for courses.
   - Use your catalog as a resource.
   - You must click Submit at the bottom of the page after you complete your requests. You cannot save work in progress. You are logged off after 10 minutes away from the screen.
   - You may change your mind, return to the screen, change your course selections and submit again while the online registration window is open.



** Online Registration will be available through April 1, 2021 **

Registration Timeline for 2021-2022

March

- Granada High School Virtual Course Expo and Orientation Evening: Wednesday, March 17, 2021
    - ◊ Information on the Granada High School Virtual Course Expo and Orientation can be found at www.livermoreschools.org/GHS_Expo.
    - ◊ Registration materials and instructions will be mailed home prior to the Virtual Expo.
    - ◊ Small-group orientations sessions for all incoming freshmen families.
- Online course registration is open March 18 - April 1, 2021. *It must be completed no later than April 1!*
- ***Students who do not complete the online registration process by April 1 will have their courses chosen for them and will not be able to choose their own electives.***

April - June

- Sophomores and freshmen meet with counselors to review course selections.
- Juniors will have the opportunity to meet with counselors to review course selections, graduation progress, and college eligibility.

May - June

- Granada High Master Schedule is created based upon course enrollment requests. The number of sections created and the number of teachers assigned to Granada are based upon student course requests.
- Students are scheduled into courses.

August

- *Student schedules are finalized and distributed at Matador Days: August 16, 17, and 18, 2021.
- *School starts: Tuesday, August 24, 2021.

Note: Dates are pending negotiation and Board Approval

Contact Information

School Website		www.livermoreschools.org/granada
Academic Counselors Last Names A - E Last Names F - L Last Names M - Rn Last Names Ro - Z	 Sylvie Shawn Tyler Johnston Joni Therrien Amy Castorena	 sshawn@lvjusd.org tjohnston@lvjusd.org jtherrien@lvjusd.org acastorena@lvjusd.org
College and Career Specialist/ROP Coordinator	Danielle Watson	dwatson@lvjusd.org
Vice Principals Class of 2022 Class of 2023 Class of 2024 Class of 2025	 Clark Conover Jessica Mann Evangeline Sugden Tori Ha	 cconover@lvjusd.org jessicamann@lvjusd.org esugden@lvjusd.org tha@lvjusd.org
Principal	Matthew Hart	mhart@lvjusd.org

Mission Statement

Granada High School develops caring, knowledgeable, and active lifelong learners ready to contribute and thrive in an interconnected and changing world.

Vision Statement

Granada High School uses a focus on state standards, continuous technological developments, staff development, and a school-wide commitment to excellence and innovation in order to produce students who can problem solve; follow and apply logical processes; interpret and evaluate texts and data; effectively communicate in a global society, using a variety of media; and advocate for personal and community well-being.

The Granada High School Course of Study

Granada is a comprehensive 4-year high school that allows students to earn a diploma that meets requirements prescribed by the Livermore Valley Joint Unified School District and the State of California. Granada students also have the opportunity to earn an International Baccalaureate Diploma, recognized worldwide as a standard of excellence.

Granada students are able to explore career options through course pathways that provide preparation for both college and the workplace. Granada offers courses in the following Pathways career sectors:

- Arts, Media and Entertainment
- Information and Communications Technology
- Education, Child Development, and Family Services
- Engineering and Architecture
- Business and Finance
- Health Science and Medical Technology
- Marketing, Sales, and Service
- Public Services
- Transportation

While at Granada, students engage in a multi-disciplinary course of study, completing both required and elective coursework across the following departments: Career & Technical Education, English, Mathematics, Physical Education, Science, Social Science and History, Visual and Performing Arts, and World Language. Students are able to enroll in courses offered through the Regional Occupation Program (ROP) during their junior and senior years. In 2016, Granada launched a Dual Immersion program for students who want to learn in both English and Spanish. Granada High has an English Learner Program, as well as a full-range Special Education Program that meets the needs of students.

The brief course descriptions in this manual will inform students of the general nature of each course. Students should consider them carefully with a parent or academic counselor and decide on a program of study.

The Trimester Schedule

Granada High School is on a trimester schedule. The trimester schedule provides increased opportunities and flexibility for students. The school year is divided into three 12-week trimesters. There are five class periods, each 70 minutes in length. A full load is four classes per trimester, with the 5th period allowing flexibility and opportunity. Graduation requirements are based on students enrolling in 4 courses per trimester. One trimester course is equivalent to a traditional system's semester course. Students who successfully complete a trimester course earn 5 units. A year-long course in a traditional semester system requires two trimesters.

International Baccalaureate (IB) Diploma Programme

The International Baccalaureate Diploma Programme offers internationally recognized, rigorous curriculum focused on both breadth and depth of knowledge. Students are challenged to think critically, understand other perspectives, develop an international mindset, write and communicate effectively at a college level, and contribute to their classroom and local communities.

Juniors and seniors may enroll in the full Diploma Programme or may enroll in one or more individual IB courses. All IB courses are grade weighted at GHS. Students who complete the IB Diploma course of study and pass the exams receive the prestigious International Baccalaureate Diploma, which is very well respected by leading national and international universities. Students who successfully complete individual IB courses and pass the course exams are also highly competitive as college applicants and may receive college credit.

A key element of the IB Program is the connection among all areas of study. Students choosing the full IB Diploma students will also:

- Enroll in Theory of Knowledge (TOK) for one trimester in each of their junior and senior years. This course on critical thinking develops an understanding of how we know what we know. TOK is a required course for students pursuing the full IB Diploma, but is also open to all students who are interested in examining knowledge and taking a challenging, engaging critical thinking-based subject..
- Complete the Extended Essay (EE) over 11th and 12th grades. The EE is a 4000-word maximum research paper that allows students to research and think creatively about a topic of their own interest.
- Participate in the Creativity, Activity and Service (CAS) program over 11th and 12th grades. CAS allows students to choose their own activities in community service, athletics, the arts, and/or other individual pursuits to enhance personal and interpersonal development and lead balanced lives.

International Baccalaureate Middle Years Programme (MYP)

Granada High School is excited to offer the IB MYP Programme to our 9th and 10th grade students. This program will provide students opportunities to learn in a cohesive and rigorous program that emphasizes relevance, international-mindedness, and appropriate levels of rigor. GHS is currently a candidate school for the MYP. GHS is already an authorized IB World School for the IB Diploma Programme and is pursuing authorization as an IB World School for the MYP. IB World Schools share a common philosophy- a commitment to high-quality, challenging, international education- that we believe is important for our students. * *See page 12 for MYP Pathway information*

Advanced Placement (AP) Courses

Students are able to enroll in rigorous, college level courses through the AP Program. Most AP courses indicate a second year of study, after completing the high school level, while some replace high school subjects with college level rigor. Students may enroll in one or many AP courses while at Granada. Because of the rigor and time commitment, students are encouraged to meet with their counselors to determine a reasonable load, usually not more than 3 AP courses in one academic year. Because of their rigor, all AP courses earn a weighted grade point at GHS.

Students who successfully complete AP courses (C or better) and pass AP exams indicate college readiness to universities, and may be eligible for college credit, depending on the university. (See university/college admission websites for specific and additional information regarding credit for AP courses.)

AP seminars are offered for many AP courses and are strongly recommended. They are held in the third trimester and serve as review courses. These courses are not weighted and earn a pass/fail grade and 5 elective credit units.

Dual Immersion Classes

Students entering Granada from a Dual Immersion K-8 program and students who want to develop fluency in both English and Spanish are encouraged to participate in the Dual Immersion classes. Concurrent studies in Spanish and English, along with core academic courses taught in both languages, will prepare students to earn the State Seal of Biliteracy. Dual Immersion courses for freshmen in 2021-22 include: Spanish for Native Speakers 1, Algebra 1 (in Spanish), Computer Applications (in Spanish), and Geometry, along with courses taught in English.

More information about all course offerings can be found in the appropriate department listings and on the GHS website.

GHS Career Pathways

Granada High School is committed to preparing students for success in their future endeavors. We believe all students need a strong academic foundation combined with real world experiences to be prepared for the ever-changing world of work. Our goal is to prepare all students to be both college ***and*** career ready.

A Career Pathway is a series of course offerings within one of the 15 Industry Sectors identified by the state of California (see http://www.cde.ca.gov/ci/ct/sf/ctemcstandards.asp for more information). We are proud that Granada is able to offer courses within several of these industry sectors, most generously from the *Engineering and Architecture*; *Art, Media, and Entertainment*; and *Health Science and Medical Technology* sectors. We have listed our courses by industry sector below to make the process of choosing courses more meaningful to students. These career pathways are meant to represent the full range of educational levels from Certificate and Associate's Degrees to Bachelor's, Master's and Doctoral degrees.

Industry Sector	Career Options		GHS Courses	
Arts, Media, And Entertainment	***Actor*** ***Artist*** ***Artistic Director*** ***Broadcaster*** ***Composer/Conductor*** ***Computer Game Designer*** ***Digital Animator*** ***Editor*** ***Event Planner***	***Fashion Designer*** ***Museum Curator*** ***Performer*** ***Producer/Director*** ***Sound/Film Editor*** ***Sound/Lighting Technician*** ***Talent Manager*** ***Web Designer***	**Animation** **Animation/ Motion Graphics (ROP)** **AP Studio Art** **Art** **Ceramics** **Digital Photo** **Drama** **IB Theatre**	**Journalism** **Orchestra Studio Broadcast Productions** **Symphonic Band** **Video Game Art & Design (ROP)** **Video Production** **Visual Communications (ROP)**
Engineering and Architecture	***Architect*** ***Auto Mechanic*** ***CAD Technician*** ***Carpenter*** ***City Planner*** ***Civil or Mechanical Engineer*** ***Computer Networking Technician*** ***Construction Worker***	***Drafter/Designer*** ***Electrical Technician*** ***Industrial Engineer*** ***Machinist*** ***Robotics Engineer*** ***Sheet Metal Worker*** ***Software Engineering*** ***Surveyor*** ***Welder***	**AP Calculus AB or BC** **AP or IB Physics** **Architectural Design** **Auto Collision (ROP)** **Automotive Technology** **Automotive Specialist (ROP)** **Civil Engineering and Architecture (PLTW)**	**Computer Integrated Manufacturing (PLTW)** **Engineering Design** **Intro to Engineering A/B (PLTW)** **Machine Tool** **Principles of Engineering (PLTW)** **Robotics**
Health Science and Medical Technology	***Animal Lab Technician*** ***Athletic Trainer*** ***Dental Hygienist*** ***Dentist*** ***Doctor*** ***Emergency Medical Technician (EMT)*** ***Firefighter*** ***Food Science Technician***	***Medical Assistant*** ***Molecular Biologist*** ***Nurse*** ***Physical Therapist*** ***Public Health*** ***Surgical Technician*** ***Ultrasound Technician*** ***Veterinarian*** ***Water Quality Inspector***	**AP or IB Biology** **AP or IB Chemistry** **AP or IB Physics** **Biochemistry** **Biotechnology** **Emergency Medical Responder** **Foods** **Foods for Singles** **Intro to Health Careers (ROP)** **Medical Occupations (ROP)** **Nursing (ROP)**	**Physiology** **Principles of Biomedical Sci (ROP)** **Principles of Health** **Psychology (reg or IB)** **Sports Med/Ath. Training (ROP)** **Sports Psychology** **Statistics (reg or AP)**
Information and Communication Technologies	***Administrative Assistants*** ***Cryptographer*** ***Cyber Security Technician*** ***Database Programmer*** ***Database Technicians*** ***Graphic Designer*** ***Network Analyst*** ***Network Engineer*** ***Network Systems Assistant*** ***Paralegal***	***Security Analyst*** ***Software Customer Support*** ***Software/Hardware Engineer*** ***Software/Hardware Installers*** ***Technical Writer*** ***Telecommunications Technician*** ***Web Page Developer***	**AP Computer Science** **Computer Applications** **Computer Graphics** **Computer Science Principles** **Exploring Computer Science** **Game Design** **IB Information Technology in a Global Society** **Intro. to Computer Science** **Intro. To Computer Programming** **AP Computer Science Principles** **IT Essentials (ROP)**	**Journalism** **Principles of Engineering (PLTW)** **Robotics** **Stats and Blogging**

Business and Finance	*Accountant* *Assessor* *Auditors* *Bank Teller* *Bookkeeper* *Budget Analysts* *Buyer* *Chief Financial Officer (CFO)* *Claims*	*Economist* *Financial Planner* *Human Resources Manager* *Insurance Adjuster* *Loan Officer* *Real Estate Appraisers* *Tax Preparer* *Tax Attorney*	AP Statistics Economics Economics of Bus. Ownership (ROP) Intro to Business (ROP)	Leadership Marketing (ROP) Sports/Entertainment Marketing (ROP)
Public Services	*Counselor* *Crime Scene Investigator* *Criminologist* *Elected Official* *Emergency and Fire Manager* *FBI Agent* *Fire Fighter* *Judge*	*Lawyer* *Legal Clerk/Court Report* *Paramedic* *Police Officer* *Private Investigator* *Probation Officer* *Psychologist /Therapist* *Security Guard* *Social Worker*	AP US History Civics or AP Gov't & Politics Criminal Justice/CSI (ROP) Criminal Justice Academy (ROP) Dev'l Psychology of Children (ROP) Emergency Med. Responder (ROP) Human Development & Relationships	IB Psychology Journalism Leadership Medical Occupations (ROP) Sports in Society Sports Psychology
Education, Child Development, and Family Services	*Administrator* *Adoption Counselor* *Child Psychologist* *Counselor* *Family Advocate* *Personal/Home Care Aide* *Preschool Teacher/ Director* *Product & Development Researcher*	*Property Manager* *Recreation Leader/Director* *Fitness Instructor* *Social Worker* *Speech Therapist* *Teacher* *Teacher Aide* *Librarian* *Professor*	IB Psychology Dev'l Psychology of Children (ROP) High School Tutor Human Development & Relationships	IB Theory of Knowledge Special Ed Aide Sports Psychology Teacher Assistant
Marketing, Sales and Service	*Advertiser* *Entertainment Agent* *Entrepreneur* *Hotel, Motel, and Resort Desk Clerks* *Marketing/Sales Manager* *Paralegal* *Personal Trainer* *Postal Worker* *Public Relations*	*Real Estate Agent* *Receptionist* *Retail Salesperson* *Secretary/Admin. Asst.* *Shipping and Receiving Clerks* *Sports Agent* *Sports Marketing* *Travel Agent*	IB Psychology Dev'l Psychology of Children (ROP) Special Ed Aide Economics Leadership Econ. of Business Ownership (ROP)	Integrated Marketing Communications (ROP) Sports/ Entertainment Marketing (ROP) Intro to Business (ROP) Statistics (reg or AP)
Transportation	*Airplane Mechanic* *Astronaut* *Auto Mechanic* *Collision Repair Tech* *Detailer* *Dispatcher* *Driver* *Engineer*	*Fleet Manager* *Flight Attendant* *Ground Crew* *Mechanic* *Parts and Service Mgr.* *Pilot* *Salesperson* *Vehicle Maintenance Tech*	Auto Specialist (ROP) Auto Technology Adv. Auto Technology Auto Collision (ROP)	Computer Integrated Manufacturing (PLTW) Engineering Design Machine Tool

Post High School Planning

California Community College
All students are eligible to attend any of 120 community colleges in California. Community colleges are an attractive choice for students who want to earn a job training certificate, an Associate's degree, or who want to start their Bachelor's degree program and then transfer to a 4-year university.

California State University
The CSU system consists of 23 campuses designed to educate the top 33% of California high school graduates. Eligibility to a CSU requires meeting the CSU Eligibility Index, completing the A-G subject requirement, and taking either the SAT or the ACT with a qualifying score. Admission to the CSU system relies heavily on a student's academic record and tends not to look at extracurricular activities or other factors about the student.

University of California
The UC system consists of 10 campuses designed to educate the top 12% of California high school graduates. Eligibility to a UC requires a minimum 3.0 GPA, completing the A-G subject requirement, and taking either the ACT or the SAT. The UC system evaluates students "holistically" and takes into consideration many factors about a student (extracurricular activities, life challenges, leadership experience, etc.), in addition to their academic record.

Private and Out-of-State Colleges
There are hundreds of independent/private colleges in California. Each is different in selectivity and requirements. Check individual campus websites for more information. Out-of-state colleges such as Arizona State, UNR, and others are popular destinations for California students. As programs in engineering, nursing and other sciences are becoming increasingly more competitive in California, students are finding it much easier to be admitted to such programs in other states. Often, out-of-state costs can be avoided through the WUE program (see below).

Required Admissions Tests
The UC/CSU systems require applicants to take either the SAT or the ACT test for admission. Most private and out-of-state colleges also require one or the other. If you are planning to attend a community college, you do not need to take the SAT or ACT test.

Western Undergraduate Exchange Program
The Western Undergraduate Exchange Program (WUE) offers reduced tuition rates at participating 2-year and 4-year public colleges. Although the price tag for a private college education can be high, scholarships granted by the college may make the cost of attendance more affordable. Advantages of a private school often include smaller class sizes, financial assistance and a high likelihood of graduating in four years.

Military and Trade Schools
Some students choose to join the military or attend a trade school as a fast path to a job right out of high school. Students who join the military will be employed 6-8 months after high school and will still have the option to attend college. To enlist, students must be 18 years old (or 17 with parental consent). Military recruiters are easily accessible to students at Granada.

Students who want to learn skills related to a specific job can go to a trade school or undertake an apprenticeship. Students who attend a trade school will enter the workforce within two years of beginning a program. Students can attend a trade school for jobs such as a mechanic, welder, dental hygienist, medical assistant and construction.

For more information about any of the above options, visit www.livermoreschools.org/GHS_Counseling.

Graduation & College Entrance Requirements

Calculating GPA: In calculating an applicant's grade-point average for admission, use only the grades earned in the "a-g" courses and count as follows: A = 4 points, B = 3 points, C = 2 points, D = 1 point, and F = 0. Check admission requirements for schools; many schools only include 10th -12th grade when calculating GPA.

SUBJECT	GRANADA HIGH	UC/CSU (A – G)
Social Science & History	**35 Units** 1 trimester Social Science 9 2 trimesters World History 10 2 trimesters U.S. History 11 1 trimester Civics 12 1 trimester Economics 12 *or* IB History of the Americas HL1&2	**(A) 20 Units** 2 trimesters World History 10 2 trimesters U.S. History 11
English	**40 Units** 2 trimesters English 9A/B 2 trimesters English 10A/B 2 trimesters English 11A/B 2 trimesters English 12/Core Options *or* IB Lang/Lit HL1&2	**(B) 40 Units** 2 trimesters English 9A/B 2 trimesters English 10A/B 2 trimesters English 11A/B 2 trimesters English 12/Core Options
Mathematics	**20 Units** Must include completion of Algebra I	**(C) 30 Units** 2 trimesters Algebra I A/B 2 trimesters Geometry A/B 2 trimesters Algebra II A/B (UC recommends 4 years/levels)
Science	**20 Units** 2 trimesters of Physical Science 2 trimesters of Biology May be lab or non-lab sciences	**(D) 20 Units** UC 4 trimesters of lab science, 1 life & 1 physical. (UC recommends 3 years) CSU 4 trimesters - 2 trimesters of a lab science & 2 can be non lab
Career Technical Education	**30 Units** In at least two of these three categories: For example: 1 year of VPA and 2 years of World Language ***or*** 2 years of CTE and 1 year of VPA	Not counted in UC/CSU GPA
World Language		**(E) 20 Units** 4 trimesters (mastery of Level 2) of the same World Language (UC recommends Level 3)
Visual & Performing Arts		**(F) 10 Units** 2 trimesters of the same VPA
Physical Education	**20 Units** 2 trimesters PE 1A/B 2 trimesters PE 2A/B	Not counted in UC/CSU GPA
Health	**5 Units** -1 trimester Health	(G) 5 Units (not required for UC/CSU) 1 trimester of UC/CSU Elective
Electives	**70 Units** Elective Courses (may include extra classes in math, science, etc.)	**(G) 10 Units** (or more) 2 trimesters of UC/CSU Electives

Frequently Asked Questions

How many classes should I take each trimester?
A full course load, designed to meet the 240-unit graduation requirement, is 4 courses per trimester. The trimester schedule does provide you with flexibility and the option to take up to 5 classes per trimester. Seniors, you may request a reduced schedule for your last two trimesters, requesting a minimum of three classes during trimester two and three of your senior year.

Will I get the classes I request?
You will get the classes you need, and most students get classes they request. It is very important that you list several alternates in case we need to modify your schedule. Choose alternates you are interested in, as they may replace unavailable elective options.

Can I change my mind after I register online for courses?
Counselors will be meeting with all current students to confirm course selection. During that meeting, you will have a chance to modify your requests. Once you make your selection with your counselor, you will have your classes set for the next school year. Changes to course requests will not be considered after June 1, 2020.

Can I choose the trimesters when I will have my classes?
You cannot request a specific trimester for a specific course. When you register you can provide information about your personal scheduling needs, such as whether you would like a four or five period day. When you meet with your counselor, you can specify individual needs.

Can I request the same teacher for two parts of a class?
It is not possible for us to accommodate student requests for specific teachers. Our goal is for all students to be enrolled in the courses they need, regardless of the assigned teacher.

Are course prerequisites mandatory?
Courses listed as prerequisites should be completed with a "C" grade or better, unless noted otherwise. These courses will give you the skills and knowledge to be successful in each class. If you have questions about the prerequisites, speak to the teacher or your academic counselor. In some cases, teachers can authorize your enrollment in a course if you show that you are prepared for success.

How important is it to take Honors, Advanced Placement (AP), or International Baccalaureate (IB) courses?
It is important to take classes that challenge you. AP and IB Higher Level (HL) courses are more rigorous and prepare you for college level work. Honors, AP and IB courses receive a weighted grade. (UC and CSU do not give weighted credit to honors courses taken during freshman and sophomore year.) Your counselor, teachers or vice principal can give you more information about a specific honors class.

What is the International Baccalaureate (IB) Diploma Programme?
The International Baccalaureate (IB) Diploma Programme is for juniors and seniors seeking a cohesive and rigorous university preparation program with a focus on international mindedness. The ideal student will have demonstrated success in academically challenging courses during freshman and sophomore years, but there are no prerequisites to participation. All IB students are required to complete one course in each of six curricular groups, along with the "core" IB requirements: the Theory of Knowledge course, extended essay (a 4000 word essay), and a Creativity, Activity, and Service (CAS) project. The IB Diploma Programme encourages students to become active and compassionate lifelong learners. For more information please refer to www.livermoreschools.org/GHS_IB and www.ibo.org, or contact the IB Coordinator, Jon Cariveau at jcariveau@lvjusd.org.

What are my choices for IB?
- Take IB classes only with the designation on the transcript—no testing
- Take IB classes and certificate test in one or more subject areas
- Complete the full IB diploma—six subject area tests, IB Theory of Knowledge, Extended Essay, Creativity, Action and Service (CAS)

What are the advantages of pursuing the full IB diploma?

- Opportunity to have an academic challenge
- Chance to be measured on an international standard
- Ability to compete for admission to colleges and universities
- Education that will enable you to transition easily into university level work
- Possibility of earning college credit

Can a student take only a few IB exams?
Yes. Students who feel strong in only certain areas may take certificate tests. IB certificate testing is completed only during the senior year. Students may earn college credit in subjects in which they test.

Do I have to take the AP Exam if I take an AP course?
You are strongly encouraged to take the AP Exam for every AP course that you take, however this is not a requirement of the course. Please speak to your counselor, teachers or vice principal if you have questions about taking AP courses or AP examinations. Fee waivers may be available for qualifying students.

Some AP classes have an AP Seminar; is this mandatory?
AP Seminars are offered in the spring trimester for many AP classes. AP Seminars are strongly recommended for students who want the most preparation for their AP Exams. These courses are not mandatory, but provide specific instruction for students to do well on these tests. The pass/fail grades in seminar courses are not weighted and earn elective credit.

Can I drop a class after I've started it?
Occasionally, students believe that they are misplaced in a course. In this case, a student may withdraw from a course if a team decision has been made involving input and approval from a parent/guardian, teacher, vice-principal, and/or counselor. If the withdrawal is approved, the student will receive a grade of "W" on his/her transcript along with the grade in the course at the time of withdrawing (for example a "WF" if the student was failing). The "W" will be excluded from the student's GPA calculation.

Can I drop an AP class after I've started it?
You should expect that you will not be able to drop an AP course to take an alternative college preparatory course, as space may not be available in the college preparatory course.

Why am I recommended for English Workshop?
At Granada, we are offering additional support for students who have not yet mastered grade level standards. Any student who is not proficient in English must take an additional English class, English Workshop. Students are assessed in the "B" portions of their current English courses for proficiency in reading comprehension, grammar, and writing. The District Write score is also a consideration in placement into English Workshop. This course will reinforce reading and writing skills needed to succeed in high school and after graduation.

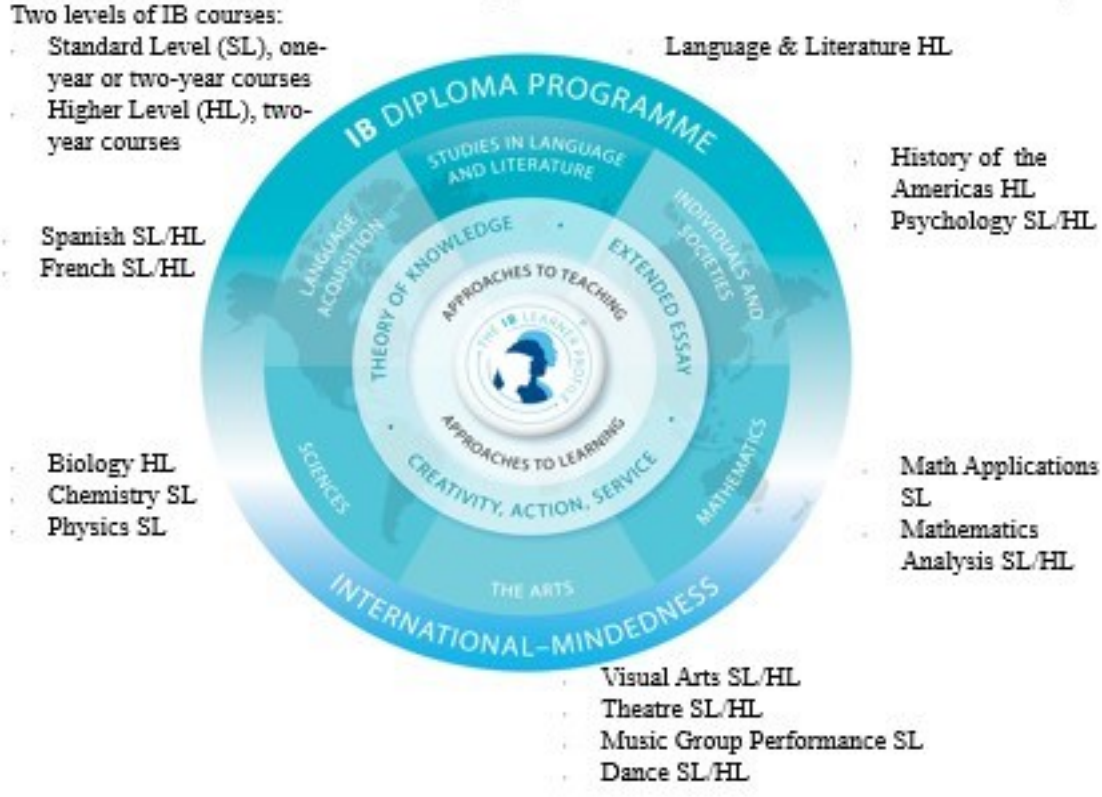
What is the California FitnessGram? And what is the CIF PE Exemption?
20 units of Physical Education are required for graduation. The California FitnessGram is the state's mandatory test for physical fitness taken by all freshmen. Sophomores who have passed the FitnessGram and who are enrolled in a CIF sport may earn 5 units of PE credit for participation in the sport. Students who do not pass the FitnessGram will be required to take two PE courses each year until they pass.

When will I get my schedule for next year?
You will receive your schedule in August during Matador Days.

Where do I go if I have more questions?
Your counselors will be meeting with you to confirm your course selection. They are your scheduling resource.

What is ROP (Regional Occupational Program)?
ROP provides engaging learning opportunities for students eager to acquire career training and technical skills essential for employment. Many ROP programs offer students the opportunity to earn nationally recognized certifications or college credits and even the opportunity to start a career straight out of high school. Some ROP courses are offered at other Tri-Valley high school campuses. Students in those classes are responsible for transportation to off-campus sites. For more information about ROP, please visit www.tvrop.org or go to page 19 in this course catalog.

The IB Diploma Programme Course of Study



Earning the International Baccalaureate Diploma

Students who intend to earn the IB Diploma will enroll in IB courses during their junior and senior years. Students will choose three Standard Level (SL) courses and three Higher Level (HL) courses, one course from each of the six course groups. In addition, all students will enroll in Theory of Knowledge (TOK), a two-trimester course that is taken during one trimester of the junior year and one trimester of the senior year. Students will enroll in the core academic areas required for Granada as well as IB graduation, and will have flexibility in choosing electives that interest them.

UC/CSU (a) Social Science (IB Individuals & Societies)	IB History of the Americas HL
UC/CSU (b) English (IB Language & Literature)	IB Language and Literature HL
UC/CSU (c) Math (IB Mathematics)	IB Math Applications SL or IB Math Analysis SL/ HL
UC/CSU (d) Science (IB Sciences)	Choose one from Biology (HL1), or Chemistry SL or Physics SL
UC/CSU (e) World Language (IB Language Acquisition)	Choose one from Spanish (SL or HL) or French (SL or HL)
UC/CSU (f) Arts (IB Arts)	Choose one from Visual Arts (SL or HL) or Theater (SL or HL) or Music Group Performance SL or Dance (SL or HL)
UC/CSU (g) Electives:	IB Psychology (SL or HL) IB Theory of Knowledge (TOK)

Please visit the International Baccalaureate page on the GHS website for more information and sample student schedules.

— Granada High School —

International Baccalaureate Middle Years Programme

The IB MYP is a framework of courses that encourages students to make practical connections between their studies and the real world in a cohesive and rigorous program that emphasizes relevance, international-mindedness, and appropriate levels of rigor. The programme culminates in an MYP Personal Project in 10th grade.

Grades 9 and 10 of the IB MYP will offer a Standard Path cohort and an Advanced Path cohort.

Grade 9 Standard Path

IB Subject	Class
Mathematics	Algebra 1A and 1B
Individuals and Societies	Social Sciences 9A and B
Language and Literature	English 9A and B
Sciences	Conceptual Physics A and B
Physical and Health Education	PE 1A and B
Language Acquisition	Spanish 1A and 1B
Arts	Art 1 or Orchestra
	Freshmen in Transition (FIT)
	Health

Grade 9 Advanced Path

IB Subject	Class
Mathematics	Geometry A and B
Individuals and Societies	Social Sciences 9 Honors A and B
Language and Literature	English Honors A and B
Sciences	Biology A and B
Physical and Health Education	PE 1A and B
Language Acquisition	Spanish 2A and B
Arts	Art 1 or Orchestra
	Freshmen in Transition (FIT)
	Health

Grade 10 Standard Path

IB Subject	Class
Mathematics	Geometry A and B
Individuals and Societies	World History A and B
Language and Literature	English 10A and B
Sciences	Biology A and B
Physical and Health Education	PE 2A and B (or CIF Exemption)
Language Acquisition	Spanish 2A and 2B
Arts	Art 2 or Orchestra
Design	Video Production Design

Grade 10 Advanced Path

IB Subject	Class
Mathematics	Algebra IIA and B
Individuals and Societies	World History Honors A and B
Language and Literature	English 10 Honors A and B
Sciences	Chemistry A and B
Physical and Health Education	PE 2A and B (or CIF Exemption)
Language Acquisition	Spanish 3A and 3B
Arts	Art 2 or Orchestra
Design	Video Production Design

Students must take all the courses in the path in order to take part in the cohort, and a student must qualify for all classes within the advanced path in order to take part in that path. Students who wish to enter the MYP in 9th grade should go to https://www.livermoreschools.org/GHS_MYP to download, print and fill out the MYP Application, then turn it in to the GHS Counseling office.

Granada High School

Expected Schoolwide Learning Results

Thinking Standards

Every Granada student will be able to:

- ◊ follow and apply logical processes
- ◊ problem-solve interpret and evaluate texts and data
- ◊ identify and evaluate chains of causality
- ◊ effectively communicate in a variety of media

Career and Technical Education

The Career and Technical Education (CTE) Department offers courses that prepare students for both career and college in the following GHS career pathways:

- *Computer Science and Information Technology*
- *Education, Child Development, and Family Services*
- *Engineering and Design*
- *Finance and Business*
- *Marketing, Sales, and Service*

As well as:

- *Culinary courses*
- *Industrial Technology courses*

Granada is proud to offer Project Lead the Way (PLTW) courses that provide a sequence of UC/CSU-approved electives that prepare students for college programs in computer science and engineering as well as for careers in information technology and engineering-related industries. PLTW courses use a fun, hands-on, project-based engineering curriculum provided by PLTW and recognized by industry as a national leader in Science, Technology, Engineering, and Mathematics (STEM) education.

Computer Science and Information Technology

Our Computer Science department offers a broad range of technology courses. We recommend starting off with either Introduction to Computer Programming, or Exploring Computer Science to discover the many aspects of technology and computer science. Students then choose from a variety of options: the "Computer Science Principles" and "AP Computer Science" pathway are geared for careers in CS and engineering; "Game Design 1" is customized for game design and simulation; and finally "Computer Graphics 1-2" and "Web Page Design" are for those interested in the graphic arts.

Introduction to Computer Programming (P)
Course Code: **44100**
Length: 1 Trimester
Grade Level: 9 – 12
College: UC/CSU "g" Elective Requirement
Prerequisite: Algebra 1
Description: Introduction to Computer Programming is an elective course that introduces students to the field of programming and computer science using the C# programming language. Students will learn how to create various user interfaces, use variables and data types, and write programming constructs and algorithms. This course is a pre-requisite for AP Computer Science.

Exploring Computer Science A/B (P)
A Code: **43510**
B Code: **43511**
Length: 2 Trimesters - 10 units
Grade Level: 9 - 12
College: UC/CSU "g" Elective Requirement
Prerequisite: "C" or better in Algebra I or teacher consent
Description: Designed to be the first computer science course for students who have never programmed before. ECS is a slower-paced course than our one-trimester course, Introduction to Computer Programming. Students will learn a wide variety of topics critical for any career in the 21st century: how we interact with computers and how they change our world; programming and web design; robotics and problem solving; data analysis and computer ethics; in short, a bit of everything.

Note: Although recommended, students are not required to take the A/B sections in the same school year.

Computer Science Principles A/B (P) (PLTW)
A Code: **43500**
B Code: **43501**
Length: 2 Trimesters - 10 units
Grade Level: 10 - 12

College: UC/CSU "g" Elective Requirement
Prerequisite: Algebra I and Exploring Computer Science or Introduction to Computer Programming
Description: This course is part of our Project Lead the Way curriculum, emphasizing the power of computational thinking and analytical inquiry. The 4 units of study are: 1) Graphics and Computer Science, which covers concepts such as iteration, objects, classes, events and code efficiency. 2) Web Design and Information Technology, including code writing, networking concepts, privacy and security. 3) Information Science, which introduces discrete mathematics, probability and association and data visualization. 4) Software Engineering, where students predict solutions and develop strategies for handling large projects.

AP Computer Science Principles A/B (AP) (P) (PLTW)
A Code: **47078**
B Code: **47079**
Length: 2 Trimesters—10 units
Grade Level: 10 - 12
College: UC/CSU "g" Elective Requirement, AP CSP counts as a student's 3rd or 4th recommended year of UC/CSU laboratory science.
Prerequisite: "C" or better in Introduction to Computer Programming or Exploring Computer Science
Description: AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. This course covers the standards assessed and the requirements for the AP digital portfolio for the AP Computer Science Principles test.
Note: If a student plans to take both AP Computer Science Principles and AP Computer Science, this course is recommended to be taken first.

AP Computer Science A/B (AP) (P)
A Code: **47060**
B Code: **47065**
Length: 2 Trimesters - 10 units
Grade Level: 11 - 12
College: UC/CSU "g" Elective Requirement, AP CS counts as a student's 4th recommended year of UC/CSU mathematics.
Prerequisite: "C" or better in Computer Science Principles or Exploring Computer Science or Introduction to Computer Programming or AP Computer Science Principles
Description: This course focuses on object-oriented programming in the Java language. Key concepts include classes, objects, inheritance, abstract classes, interfaces, polymorphism, code reusability, and strong algorithmic thinking. Students will spend time completing projects that will help solidify each programming concept and will analyze, adapt, and improve each other's programs. Many projects will be programmed using a graphical user interface. This course covers the standards assessed on the Computer Science Advanced Placement test.
Note: If a student plans to take both AP Computer Science Principles and AP Computer Science, it is recommended that AP Computer Science Principles should be taken first.

Game Design 1 A/B (P)
A Code: **44400**
B Code: **44401**
Length: 2 Trimesters - 10 Units
Grade Level: 10 - 12
College: Pending UC/CSU "g" Elective Approval
Prerequisite: Exploring Computer Science or Introduction to Computer Programming
Description: Game Design 1 is part of our Game Design and Simulation pathway. The pathway prepares students for careers within the game design industry and in related technical fields. Students will develop foundational knowledge in game design, computer software, animation, graphics and hardware. They will apply skills in mathematics, physics, English language arts, social science and entrepreneurship. Most importantly, students will learn the 21st century skills of creativity, critical thinking, communication, collaboration and technical expertise, which will increase employment capacity across the job market. In Game Design 1, students will learn the principles of game theory, basic programming principles, technical reading and writing, and drawing and animation. Students will use industry-standard tools, working individually and collaboratively, to create a variety of 2D games, both traditional and digital.
Note: Although recommended, students are not required to take the A/B sections in the same school year.

Cybersecurity (PLTW)
A Code: **52081**
B Code: **52082**
Length: 2 Trimesters - 10 Units
Grade Level: 10 - 12
Pending Approval
Prerequisite: Introduction to Computer Programming or Exploring Computer Science or Computer Science Principles
Description: Cybersecurity introduces tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently

attacked; in cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

Web Page Design
Code: **45005**
Length: 1 Trimester - 5 Units
Grade Level: 9 - 12
Prerequisite: Exploring Computer Science or Introduction to Computer Programming
Description: Students learn how to create personal and professional-style web pages and publish them on the web using Adobe Creative Suite applications such as Dreamweaver, Fireworks and Flash. The topics we cover are page layout and design, importing images, style sheets, interactive pages (forms), graphic design, animation and internet privacy and ethics.

IT Essentials (ROP)
See page 24 in the ROP Courses for course description.

Education, Child Development and Family Services

Granada offers courses that support careers in education and child development. Several of these courses provide internship opportunities and may earn college credit.

Developmental Psychology of Children I (ROP) (P)
See page 20 in the ROP Courses for course description.

Developmental Psychology of Children II(ROP) (P)
See page 20 in the ROP Courses for course description.

High School Tutor
See page 56 in Non-Departmental Courses for course description.

Engineering and Design

The Engineering and Design Program provides students with real world problem solving that integrates hands-on approaches. Through the courses in this program, students will work independently and in teams to investigate a wide range of topics that can be addressed with engineering. The learning experiences in this program will prepare students for further study in all areas of engineering. Some of these courses are a part of the Project Lead the Way program.

Introduction to Engineering Design A/B (P) (PLTW)
A Code: **52007**
B Code: **52008**
Length: 2 Trimesters - 10 Units
Grade Level: 9 - 12
College: UC/CSU "g" Elective Requirement
Description: Introduction to Engineering is appropriate for students who are interested in design and engineering. Students will be exposed to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. This course gives students the opportunity to develop skills and understanding of course concepts through activity, project and problem-based learning. Students will employ engineering and scientific concepts in the solution of engineering design problems. In addition, students use a state-of-the-art 3D solid modeling design software package to help them design solutions to solve proposed problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. Students will also learn to document their work and communicate their solutions to their peers and members of the professional community. This is the first course in the Project Lead The Way sequence.

Principles of Engineering A/B (P) (PLTW)
A Code: **52017**
B Code: **52018**
Grade Level: 10 - 12
College: UC/CSU "g" Elective Requirement
Length: 2 Trimesters - 10 units
Prerequisite: Completion of Geometry
Description: Principles of Engineering exposes students to some of the major concepts that they will encounter in a post-secondary engineering course of study, including mechanisms, electronics, robotics, energy sources, energy applications, fluid power, statics, material properties, material testing, statistics and kinematics. Students have an opportunity to investigate engineering and high tech careers. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various engineering challenges. This is the second course in the Project Lead The Way sequence.

Civil Engineering and Architecture A/B (P) (PLTW)
A Code: **52015**
B Code: **52016**
Length: 2 Trimesters - 10 units
Grade Level: 9 -12
College: UC/CSU "g" Elective Requirement
Prerequisite: "C" or better in Geometry or teacher consent
Description: Civil Engineering and Architecture (CEA) is the study of the design and construction of residential

and commercial building projects. The course includes an introduction to: building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. The major focus of the CEA course is to expose students to the design and construction of building projects, communication methods, engineering standards, technical documentation and how design teams work. While producing these designs, students will continually hone their interpersonal skills, creative abilities and understanding of the design construction process.

Architectural Design 3
Code: **52035**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Prerequisite: Civil Engineering and Architecture
Description: Students develop knowledge and skills in residential construction and architectural communication. Students will begin developing a working floor plan.

Architectural Design 4
Code: **52045**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Prerequisite: Architectural Design 3
Description: The continuation of Architectural Design 3 will teach students to produce a set of working drawings for a residential design, including floor and electrical plans, plot plans, elevation plans and related details drawings, interior and exterior perspectives, isometric drawings and renderings using CAD drawing and study model techniques.

Engineering Design 3
Code: **50055**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Prerequisite: Introduction to Engineering Design
Description: A variety of drafting areas are included in this course such as dimensioning, tolerancing and geometric construction, as well as working and assembly drawings.

Engineering Design 4
Code: **50065**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Prerequisite: Engineering Design 3
Description: This is a continuation of Engineering Design 3 with experiences in related career areas such as mold design, electronic drafting, CAM design and structural design.

Computer Integrated Manufacturing A/B (P) (PLTW)
A Code: **83370**
B Code: **83371**
Length: 2 Trimesters - 10 units
Grade Level: 10 - 12
College: UC/CSU "g" Elective Requirement
Prerequisite: "C" or better in Geometry or teacher consent
Description: How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? While students discover the answers to these questions, they learn about the history of manufacturing, robotics and automation, computer modeling, manufacturing equipment and flexible manufacturing systems. This third-year course is a specialization-level course designed to follow the Project Lead the Way Engineering foundation courses.

Robotics 1
Code: **46005**
Length: 1 Trimester - 5 units
Grade Level: 9 - 12
Description: Robotics is an entry-level course for students interested in exploring careers in science, engineering or technology-related fields. Students will be introduced to theoretical and practical concepts related to robotics, control systems, programming, electronics and mechanics. Students will work in structured teams to solve problems and create robots to perform specified tasks.

Robotics 2
Code: **46006**
Length: 1 Trimester - 5 units
Grade Level: 9 - 12
Prerequisite: Robotics 1
Description: Robotics 2 continues the study and application of concepts developed in Robotics 1.

Business, Finance and Marketing

Granada offers several courses that will prepare students for a future in business, some of which are a part of the ROP program. These courses are ideal for students with an interest in the workings of various types of businesses and marketing, and integrate many hands-on learning opportunities. If you plan to major in business in college, we highly recommend you take these classes.

Computer Applications
Code: **45080**
Length: 1 Trimester - 5 Units
Grade Level: 9 - 12
Description: This is an elective course that introduces students to computer operations, keyboarding, and productivity software. In this course, students will learn basic computer operations, including use of the internet. Students will explore the use of word processing, spreadsheet, and presentation software to create a variety of business documents. Students will also explore computer graphics and take a brief look into programming.

Computer Graphics 1
Code: **45020**
Length: 1 Trimester - 5 Units
Grade Level: 9 - 12
Prerequisite: Computer Applications, Exploring Computer Science or Introduction to Computer Science or Introduction to Computer Programming
Description: This course is designed for computer literate students who wish to expand their computer and creative skills and learn how to apply them to Graphic Design. Using the Adobe Creative Suite of products, including Photoshop and Illustrator, students will learn how to produce professional quality flyers, brochures and advertisements. Students complete work on a variety of graphic design projects with an emphasis on the needs of business enterprises. Students will build an individual portfolio of sample work.

Computer Graphics 2
Code: **45030**
Length: 1 Trimester - 5 Units (may be repeated for credit)
Grade Level: 9 - 12
Prerequisite: Computer Graphics 1
Description: The course is an extension of Computer Graphics 1 and is an opportunity for students who are interested in pursuing a career in Graphic Design or Print Production. Students will further develop the skills learned in Computer Graphics 1 through a combination of instruction and the completion of actual jobs for clients in the school and local community.

Introduction to Business
(See page 19 for course description)

Economics of Business Ownership (ROP) (P)
(See page 19 for course description)

Integrated Marketing Communications (ROP)
(See page 19 for course description)

Culinary

Culinary courses at Granada introduce students to the practical and career skills of cooking, exploring both basic processes and advanced culinary arts.

Foods/Healthy Living 1
Code: **65010**
Length: 1 Trimester - 5 Units
Grade Level: 9 - 12
Description: This is an introductory, one-trimester course emphasizing a healthy lifestyle. It serves as a foundation for Home Economics career pathways. This course will incorporate nutrition knowledge and choices, food safety and sanitation, kitchen equipment, table service, meal etiquette and consumer guidelines for wise decision-making. Students gain skills through hands-on food preparation using a variety of recipes.

International Cuisine
Code: **65000**
Length: 1 Trimester - 5 Units
Grade Level: 9 - 12
Prerequisite: Foods/Healthy Living 1
Description: This is an intermediate, one trimester course that explores global awareness of cultural food habits and traditions, ingredients, equipment and cooking techniques. A variety of cultural foods will be studied. Students will explore and research several countries and their cuisine.

Regional Foods (Foods 2)
Code: **65020**
Length: 1 Trimester - 5 Units
Grade Level: 9-12
Prerequisite: Foods/Healthy Living 1
Description: This is an intermediate, one trimester course concentrating on the historical and regional cuisines of the United States. Emphasis will be placed on continued studies of concepts in nutrition and health, food preparation, techniques, and equipment, herbs and spices and easy adaptions of classic recipes.

Culinary Arts 1
Code: **65030**
Length: 1 Trimester - 5 Units
Grade Level: 11 - 12
Prerequisite: Completion of Foods/Healthy Living and one other foods class with a passing grade or consent of instructor.
Description: An in-depth one-trimester course which emphasizes classic culinary skills. Units include knife skills, equipment, appetizers, sauces, and application of cooking techniques using a variety of foods. Professional procedures in the Food Service and Hospitality sector will be emphasized while practicing industry standards for safety, sanitation, costing, presentation, menu planning, and career options. Community College credit available.

Culinary Arts 2
Code: **65035**
Length: 1 Trimester - 5 Units
Grade Level: 11 - 12
Prerequisite: Completion of Culinary 1 or consent of instructor.
Description: An in-depth one-trimester course which presents a wide range of dough-based products from pastries to yeast breads and a variety of baked goods such as cakes, cookies, and custards. Professional procedures in the Food Service and Hospitality sector will be emphasized while practicing industry standards for safety, sanitation, costing, presentation, menu planning, and career options. Community College credit available.

Industrial Technology

The Industrial Technology program examines the wide variety of technical skills that are used in industry today. These include basic mechanical skills, safe use of tools and equipment, blueprint reading, welding, maintenance and repair of automobiles, architectural design and alternative forms of energy.
Learning experiences are provided by application of scientific principles to solve technological problems. Courses include both elementary and advanced work in metals, electronics, architectural design and technical drawing. Career opportunities in the various fields are also explored.

Automotive Technology 1
Code: **58010**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Description: This beginning course teaches students about the operation of the automobile through lecture and laboratory work. Students will learn basic principles of maintenance and care of the automobile through the topics of safety, engines, electrical systems, cooling and lubrication.

Automotive Technology 2
Code: **58020**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Prerequisite: Automotive Technology 1
Description: This continuation of Automotive Technology 1 teaches students about the operation of the automobile through lecture and lab work. Students will learn the basic principles of maintenance and care of the automobile through the topics of drivetrains and axles, suspensions, steering and brakes.

Advanced Automotive Technology 3
Code: **58040**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Prerequisite: Automotive Technology 2 with a "C" or better
Description: In this course, students will learn how to diagnose and service the major systems of the automobile, such as engines, electrical systems, cooling and lubrication, and drivetrains.

Advanced Automotive Technology 4
Code: **58050**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Prerequisite: Automotive Technology 3 with a "C" or better
Description: The continuation of Automotive Technology 3 provides students with an opportunity to learn how to diagnose, repair and service the major systems of the automobile, such as transmissions, clutches, axles, suspensions, steering and brakes.

Machine Tool 1
Code: **55010**
Length: 1 Trimester - 5 Units
Grade Level: 9 - 12
Description: This course is an introduction to the metal industry. Students use some of the traditional metal working machines and hand tools. Topics include shop safety, hand tools, lathe, milling machine, measurement and CAD/CAM machining. Topics are taught using both class lecture and assigned projects. This course is recommended for students planning a career in the engineering or manufacturing industries.

Machine Tool 2
Code: **55020**
Length: 1 Trimester - 5 Units
Grade Level: 9 - 12
Prerequisite: Machine Tool 1
Description: In this second course, students use skills from Machine Tool 1 and are assigned projects that are more complex. Students are given the opportunity to produce a project on their own.

Advanced Machine Tool 3
Code: **59040**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Prerequisite: Machine Tool 2
Description: In this third course, students are required to design and produce projects using their own designs. There is additional emphasis on project development and technical writing. Students work on an individual basis to develop skills in advanced metal work.

Advanced Machine Tool 4
Code: **59050**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Prerequisite: Advanced Machine Tool 3
Description: In this course students will design and

produce projects on their own. There is additional emphasis on project development and technical writing. Students work on an individual basis. Students may also arrange with instructor for an independent study contract to develop skills in advanced metal work.

Regional Occupational Program (ROP)

Tri-Valley Regional Occupational Program (ROP) offers classes to high school juniors and seniors that develop skills necessary for employment and prepares them for further education/training in the career area of interest. ROP classes are career-technical classes, which earn credit in the same manner as other high school elective classes.

Note: Some ROP courses are located off-campus at other school sites or community sites, as noted. Enrollment in these off-campus courses will require travel and schedule coordination.

ROP Courses at Granada High

Marketing, Sales and Service

Introduction to Business
Code: **46045**
Length: 1 Trimester - 5 Units
Grade Level: 9 - 12
Description: Students will be introduced to the world of business and career options within the industry. Students will explore foundations of business operations, and gain knowledge and skills required for success in today's marketplace. Units of instruction will introduce economic systems, global markets, ethics, entrepreneurship, management, human resources, marketing, accounting, finance in business, and personal finance.

Economics of Business Ownership (ROP) (P)
A Code: **83260**
B Code: **83265**
Length: 2 Trimesters - 10 Units (up to 30 with Co-op**)
Grade Level: 10 - 12
College: UC/CSU "g" Elective Requirement
College Credit: Up to 7 units
Description: Learn the process of starting and managing a business. Students with an entrepreneurial interest learn skills related to organization, effective decision making, and goal setting. Students develop comprehensive business plans including research & development of ideas, product planning, finance and marketing. Students research how marketing, management, ethics and communication play an important role in business success. Students gain practical experience by managing a student-run business and receive training in constructing resumes, employment applications, cover letters and references and interviewing skills. Students complete a career portfolio to prepare for entry into the job market with a competitive edge. Business concepts and leadership skills are reinforced through co-curricular participation in the Career and Technical Student Organization, DECA*. DECA is an integral component to this program and provides additional focus on developing written and oral presentation skills, as well as leadership and social professional skills that will build serf-confidence for college and career success.
*DECA, www.deca.org, prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management. DECA offers the opportunity for students to participate in competitive events throughout the year, in a variety of locati9ons at local, state and international levels. Students have the opportunity to receive recognition, awards and scholarships. DECA is endorsed by the United States Department of Education and the California Department of Education.
**Students who are employed in a related field in which the course curriculum is directly associated to the students "on-the-job" experience are eligible to receive variable credits based on the number of hours worked. Students earn 1 credit for every 18 hours they work, up to 10-30 credits per year. Students are encouraged to work 10-15 hours per week at teacher approved sites in the Tri-Valley area with their current job. Note: Students must provide their own transportation.

Integrated Marketing Communications (ROP) (P)
A Code: **83268**
B Code: **83269**
Length: 2 Trimesters - 10 Units (up to 30 with Co-op**)
Grade Level: 10 - 12
College : UC/CSU "g" Elective Requirement
College Credit: Up to 6 units
Description: Interested in business? Got an idea for a new business product? Are you creative? This course is designed to educate and prepare students for college and entry level jobs in the field of Marketing and Business. Students will learn the process of product development, promotion, selling, advertising and the many fundamentals of a successful business. This is a hands on, project-based class that offers the opportunity to learn presentation skills, practice professionalism, expand leadership skills and prepare for real world success in college and your chosen career. *Shark Tank*, *The Apprentice* and other video case studies are used to bring realistic situations to learning. Bring your ideas and creativity to this fun class. Marketing concepts and

leadership skills are reinforced with participation in DECA, a student organization that *"Prepares Emerging Leaders and Entrepreneurs in Marketing, Management, Finance and Hospitality"*. Café Ole is the student-run business that provides opportunity for real world experiences in a business lab setting.
Note: Economics of Business Ownership and Marketing are cooperative (co-op) work-based learning classes, in which the curriculum is directly associated with "on-the-job" experience.

** DECA, www.deca.org, prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management. DECA offers the opportunity for students to participate in competitive events throughout the year in a variety of locations at local, state and international levels. Students have the opportunity to receive recognition, awards and scholarships. DECA is endorsed by the United States Department of Education and the California Department of Education.*
*** Students who are employed in a related field in which the course curriculum is directly associated to the students' "on-the-job" experience are eligible to receive variable credits based on the number of hours worked. Students earn 1 credit for every 18 hours they work, up to 10 credits per semester. Students are encouraged to work 10-15 hours per week at teacher approved sites in the Tri-Valley area with their current job. Students must provide their own transportation.*

Education, Child Development and Family Services

Developmental Psychology of Children I (ROP) (P)
****For students interested in careers with children****
A Code (Fall): **83130**
B Code (Winter): **83135**
C Code (Spring): **83136**
Length: 3 Trimesters (2 hours/day, 12:35-2:35 pm) - 20 units
Grade Level: 10 - 12
College: UC/CSU "g" Elective Requirement
College Credit: 6 Units
Certification: California Commission on Teacher Credentialing (CCTC), Early Childhood Assistant, CPR Certification
Prerequisite: Proof of a current TB Test, provided by the student, to work in the community
Internship: Internship is a required component of the program and students must provide their own transportation. Students in Co-op may earn up to five additional credits per high school semester or trimester.
Description: Interested in a career involving children? Considering a career as a pediatrician, teacher, psychologist or social worker? If so, the Developmental Psychology of Children (DPOC) course is for you. DPOC is a course that combines classroom instruction and off-campus internships. That means you learn about the development of children, while you actually get to work with them. Internships take place during the scheduled class time at local elementary schools, child care centers or preschools. Opportunities for after-school paid internships are also available. Throughout the school year, you will study a variety of child growth and development topics, and you will learn how to work with children ages birth to adolescence. In addition, you will be trained in CPR. After successfully completing the course, you are eligible to receive transferable college credits (for free) from Las Positas College. Make a difference in a child's life and enroll in Developmental Psychology of Children.

Developmental Psychology of Children II (ROP) (P)
A Code (Fall): **83137**
B Code (Winter): **83138**
C Code (Spring): **83139**
Location: Site to be determined
Length: 3 Trimesters (2 hours/day, 12:35-2:35 pm) - 20 units
Grade Level: 11 - 12
College Credit: 6 Units
Certification: California Commission of Teacher Credentialing (CCTC), Early Childhood Assistant, CPR Certification
Prerequisite: Developmental Psychology of Children I
Internship: Internship is a required component of the program and students must provide their own transportation. Students in Co-op may earn up to five additional credits per high school semester or trimester.
Description: This is an advanced course in child development and education. Students increase their knowledge, experience and job skills at an internship placement. Advanced projects further develop skills. Students will focus on: observation of children and programs; communicating with children, staff and parents; planning age-appropriate curriculum; and understanding the history, theories, philosophies and legal aspects of careers related to children.

Health Science and Medical Technology

Medical Occupations (ROP) (P)
A Code: **83210**
B Code: **83215**
C Code: **83216**
Length: 3 Trimesters - ***20 Units (three trimesters are double-blocked) - Updated 3/18/2021***
Grade level: 11 - 12
College: UC/CSU "g" Elective Requirement
College Credit: 7 Units
Certificate Earned: California Certified Medical Assistant Administrative (CCMA-A) (Must pass exam) BLS CPR Certification
Requirements for Clinical: 2-Step TB Clearance, flu shot, current immunization record and CPR BLS

Healthcare Provider training. These prerequisites must be completed prior to the first day of school with the exception of the flu shot (required for all students per hospital policy) administered in October. Clinical internships require that students provide their own transportation. Students must be available for internships daily. Uniforms required.
Description: Medical Occupations provides an introduction and broad exploration into several careers within the medical field including: Medical Assisting, Emergency Medicine, Veterinary Medicine, Dental Assisting/Hygienist, Geriatric Assistant, Physical Therapy, Surgical Technician and Nursing. Instruction is combined with a hands-on learning experience through instructor approved clinical internships at local medical facilities. After completion of the course, students are eligible to take the California certification exam for Medical Assistants and become a California Certified Medical Assistant-Administrative (CCMA-A).
Note: Spring orientation is required to become enrolled in the program and must be attended by the student and parent(s).

Sports Medicine/Athletic Trainer I (ROP) (P)
A Code: **83350**
B Code: **83351**
Length: 2 Trimesters - 15 units including required internship
Grade Level: 10 - 12
College: UC/CSU "g" Elective Requirement
College Credit: Up to 8 units with grade of "B" or better
Internship: 60 hours of Community Classroom (unpaid) Internship, outside of the school day, is a required component of the program, and students must provide their own transportation as necessary. Up to 5 additional units may be earned - 1 unit for every 18 hours of internship beyond the required 90 hours.
Description: Sports medicine/athletic training is an exciting, growing field with employment opportunities in athletic training, sports medicine and physical therapy. Instruction encompasses the study of anatomy, physiology, nutrition, pharmacology and kinesiology to understand the aspects of the field. Students are introduced to associated medical terminology and the practice of classification and assessment of injuries. Through internships, students apply skills learned in class to the prevention of injuries, the understanding of human body modalities and rehabilitation, the procedures of training rooms, and the safety factors related to sports medicine.

ROP Courses at Other Sites

Arts, Media and Entertainment

Video Game Art and Design (ROP) (P)
A Code (Fall): **83345**
B Code (Winter): **83346**
C Code (Spring): **83347**
School Site: Dublin High School
Length: Year-long (Daily, 3:00-3:56 pm) - 10 Units
Grade Level: 11 - 12
College Credits: 3 Units
Certificate Earned: Prepares students for the Adobe Certified Associate and Autodesk Certified User (Dublin High School is a testing center for Certiport)
College: UC/ CSU "f" Visual & Performing Arts Requirement
Description: Video Game Art & Design students get hands-on experience working in Autodesk Maya learning the skills to be a 3D Modeler. Students spend the majority of the year exploring the methods used to develop 3D models for games, including the ability to prepare and generate textures for their models in Adobe Photoshop. The class also touches on game engines, such as Unreal and Unity, as well as 3D sculpture tools Zbrush and Mudbox. While exploring the development of games, students learn about ludology, the theory of gameplay, in order to understand why people play games and their reaction to game mechanics. All students will develop a portfolio of their work, which can be used when seeking internships and/or to gain admission in post-secondary game design programs. Students may also complete the Autodesk Certified User and Adobe Certified Associate certification exams.

Animation & Motion Graphics I (ROP)
A Code (Fall): **83155**
B Code (Winter): **83156**
C Code (Spring): **83157**
School Site: Dublin High School
Length: Year-long - 20 Units
Grade Level: 11 - 12
College: UC/CSU "f" Visual & Performing Arts Requirement
College Credit: 3 Units
Certification Earned: Prepares students for the Adobe Certified Associate and Autodesk Certified User (Dublin High School is a testing center for Certiport)
Description: Animation students develop their mastery of the skills required to be a professional digital graphic artist or animator. Animation and Motion Graphics combines theory, such as the 12 Principles of Animation, with the knowledge to expertly navigate and use the various digital design programs. Throughout the year, we will be using Adobe Photoshop for digital editing and pre-production, followed by ToonBoom Harmony for our 2D

Animation or Autodesk Maya for our 3D work. Students learn the steps of working through a professional animation work-flow, working on our new iMac workstations daily and with access to our assortment of Wacom drawing tablets. Projects from this class are shared through internet media such as YouTube, for purposes of leaving the class with a final portfolio of your work to show to possible employers or college institution. Students may also complete the Autodesk Certified User and Adobe Certified Associate certification exams.

Honors Artist Portfolio
A Code (Fall): **83090**
B Code (Winter): **83091**
C Code (Spring): **83092**
School Site: Dublin High School
Length: Year-long - 20 Units
Grade Level: 12
College: UC/ CSU "f" Visual & Performing Arts Requirement
Certificate Earned: Prepares students for the Adobe Certified Associate and Autodesk Certified User (Dublin High School is a testing center for Certiport)
Description: The Honors Artist Portfolio course is a challenging course that focuses on building a body of work for student's professional portfolios. Successful students will demonstrate their development of technical skills and application of the elements and principles of art. The class will focus on the strengthening of independent thinking and creativity, the development of personal style and technique, as well as critical thinking skills through problem solving. This course is designed for students who are committed to improving their skills in visual art and are planning to take AP Studio Art and/or pursue art in college and career. Coursework will expose students to art through history from international cultures and movements. Students will do written analysis and critique of their own art and other artists, and review respond to a current gallery or museum exhibition. During the class, students will write formal self and group critiques, analysis and statements about artwork. Throughout the school year, Honors Artist Portfolio students will participate in preparing and exhibiting their work publicly.

Health Science and Medical Technology

Emergency Medical Responder (ROP)
Code: **83380**
School Site: Foothill High School
Course Length: 10 weeks (2 days per week - evenings only) - 5 Units
*Note: This class is held for 10 weeks in the fall and spring.
Grade Level: 11 - 12
College Credit: 3
Description: This course develops the knowledge and skills necessary for recognizing and caring for emergency situations,, including CPR, prevention of disease transmission, and automated external defibrillation. Designed for first responders in an emergency. Successful completion of the skills test with an 80% or better qualifies students for the American Safety and Health Institute (ASHI) First Responder certificate and an American Heart Association Basic Life Support Health Care Provider certificate. This will be offered in the evening both Fall and Spring semester. College credits available.

Intro to Health Careers (ROP) (P)
A Code (Winter): **83217**
B Code (Spring): **83218**
School Site: Livermore High School
Length: 2 Trimesters - 10 units
Grade Level: 11 - 12
College: UC/CSU "g" Elective Requirement
College Credit: Up to 2 units with a "B" or better
Certificate Earned: BLS CPR Certification
Description: This course is designed to expose students to the health care industry by surveying the wide spectrum of health care occupations and equipping them with the entry level knowledge and skills that apply to a variety of health occupations. Students who successfully complete this course will acquire the necessary knowledge and skills that will allow them to pursue an education and career in the health care industry. Students will be trained in hands on skills, taking vitals, etc. Students will earn their Basic Life Support CPR Certification. Students will develop a professional career portfolio, job shadow health care professionals and be required to earn volunteer service hours in the health care field and possibly qualify for the United Way Volunteer Service Award.

This is highly desirable for college and entry level job applications.

Nursing Careers (ROP) (P)
A Code (Fall): **83275**
B Code (Winter): **83280**
C Code (Spring): **83281**
School Site: Foothill High School
Length: Year-long (Daily 12:47-2:47 pm) - 20 Units
Grade Level: 11 - 12
College: UC/CSU "g" Elective Requirement
College Credit: 6 Units
Internship: Community Classroom (unpaid) Clinical Internship is a required component of the program and students must provide their own transportation.
Requirements for Clinical: 2 Step TB Clearance, flu shot, current immunization record and CPR BLS Health Care Provider training. These prerequisites must be completed prior to the first day of school with the exception of the flu shot (required for all students per hospital policy) administered in October. Clinical

internships require that students provide their own transportation and be available from 1:00-5:00 pm on weekdays for community classroom/internship scheduling.
Description: Nursing Careers offers a comprehensive introduction to the field of nursing while studying the care of patients and the role nurses provide in a variety of healthcare systems. Focus is given to the various specialties within the field and studies include a basic understanding of the systems of the body, medical terminology, diseases, basic patient care, taking vital signs, charting, medical ethics and understanding patient privacy laws. Instruction is combined with a hands-on learning experience through instructor approved internships at local hospitals, clinics and physician offices.
Note: Spring orientation is required to become enrolled in the program and must be attended by the student and parent(s).

Sports Medicine II (ROP) (P)
A Code (Fall): **83353**
B Code (Winter): **83354**
School Site: Livermore High
Length: 2 trimesters - 10 units
Grade Level: 11 - 12
College: UC/CSU "g" Elective Requirement
College Credit: Up to 4 Units with a "B" or better
Prerequisite: Sports Medicine/Athletic Trainer I
Internship: Up to 90 hours of community classroom (unpaid) internship, outside of the school day, is a required component of the program and students must provide their own transportation as necessary. Up to 5 additional units may be earned - 1 unit for every 18 hours of internship beyond the required 90 hours. Required hours will differ based on semester/trimester schedules.
Description: Sports Medicine II provides an excellent opportunity for students to continue exploring their interest in the fields of health science and medicine. This class provides a framework of advanced skills for understanding functional anatomy and kinesiology, building on the concepts of anatomy/physiology learned in Sports Medicine I. The lecture/lab format focuses on clinical hands-on learning, including evaluation, assessment, treatment and events, assisting the Head Athletic Trainer or Team Physician, and working with other health care professionals. Integrated throughout the course are career technical education standards, which include basic academic skills, communication, career planning, technology, problem solving, safety, responsibility, ethics, teamwork and technical knowledge.

Public Services

Introduction to Criminal Justice (CJ/CSI) (P)
A Code (Fall): **83180**
B Code (Winter): **83185**
C Code (Spring): **83186**
School Site: Livermore High School
Length: 3 Trimesters - 15 units
Grade Level: 11 - 12
College: UC/CSU "g" Elective Requirement
College Credit: 6 Units
Certificate Earned: CPR Certification
Description: This course provides students with a strong overview of law enforcement as a career. Each portion of the course helps students obtain a proficiency in understanding the different components of the criminal justice system. Students are provided with an overview of career opportunities, including but not limited to sworn personnel such as police officers, sheriffs, highway patrol, and non-sworn personnel such as dispatchers, evidence technicians, lab technicians, and attorneys. The course is tied together utilizing curriculum in crime scene investigation. Students employ skills learned on hands-on projects, including investigating a mock crime scene.

Criminal Justice Academy (ROP)
A Code (Fall): **83187**
B Code (Winter): **83188**
C Code (Spring): **83189**
School Site: Las Positas College
Length: 1 year/2 periods - 20 units
Grade Level: 11 - 12
College Credit: 16 Units
Fulfills a-g: UC/CSU "g" Elective Requirement
Certificate Earned: CPR Certification
Description: Students will have the unique opportunity to participate in a variety of exciting activities designed to enhance their learning. Activities include field trips, career exhibitions, leadership opportunities, mentoring, ride alongs, and academy competitions. Students will complete physical training at the RTC facility in the Alameda County Sheriff's campus and have the opportunity to complete the confidence course just like a cadet! Each student will be assigned a law enforcement professional mentor to help them develop their professional skills. Students will learn the historical development, philosophy of law, and constitutional provisions of administrative justice. Students will explore the ethical, legal, and moral complexities of law enforcement in a democracy; they will examine the complex, dynamic relationship between communities and the justice system. Students will write investigative reports with an emphasis on accuracy and details necessary, including, arrest reports, incident reports, and miscellaneous field reports. Volunteer hours are a required component of this course. Academy cadets will have the opportunity to wear a law enforcement uniform (uniforms required)

and show commitment to the principles of public service through volunteerism. Certificate earned - CPR Certification.

Transportation

Auto Body Repair I (ROP)
A Code (Fall): **83107**
B Code (Winter): **83108**
C Code (Spring): **83109**
School Site: Livermore High School
Length: 3 Trimesters - 15 Units (year-long class)
Grade Level: 11 - 12
College: UC/CSU "g" Elective Requirement
Certificate Earned: Automotive Service Excellence (ASE) Certification.
Description: Examine the world of auto collision repair and refinishing by learning the industry skills necessary for a successful career in the field. Students explore trends and future technologies of the collision repair and refinishing industry and practice identifying auto body damage and the relationship to cost estimation. Instruction focuses on giving students a hands-on experience in learning the skills of the trade, including: how to straighten and repair auto bumper covers, replace panels, prep cars for paint, rebuild and repaint auto bodies, MIG weld and detail cars.

Advanced Auto Body Repair (ROP)
A Code (Fall): **83126**
B Code (Winter): **83127**
C Code (Spring): **83128**
School Site: Livermore High School
Length: 3 Trimesters - 15 Units (year-long class)
Grade Level: 11 - 12
College: UC/CSU "g" Elective Requirement
Certificate Earned: Automotive Service Excellence (ASE) Certification.
Prerequisite: Auto Body Repair I
Description: This course is for students interested in a career in auto collision repair and refinishing. Students study advanced topics and complete projects that include learning the skills required for color matching to industry specifications. Instruction focuses on students applying skills and knowledge learned to identify frame damage and methods of repair and measuring. Students will become proficient in shop management, team leadership and business principles.

Automotive Technology (ROP) (P)
A Code (Fall): **83111**
B Code (Winter): **83112**
C Code (Spring): **83113**
School Site: Livermore High School
Length: 3 Trimesters - 15 Units
Grade Level: 11 - 12
College Credit: 4 Units
College: UC/CSU "g" Elective Requirement
Certificate Earned: Automotive Service Excellence (ASE) Certification.
Description: Automotive Technology is a comprehensive, hands-on course that allows students to explore and practice the necessary skills needed to repair car engines and parts. Instruction includes: steering and suspension, brakes, electrical, maintenance, engine diagnostics and repair, rear axle, automatic transmissions and emission controls. Students gain experience in tire repair, changing and high-speed tire balancing, brake and wheel bearing inspection, measuring and repairing and front and four-wheel alignment. Desired business and shop practices are studied, along with advanced automotive theory used in the industry. Students practice test preparation and procedures for the Automotive Service Excellence (ASE) certification and learn the benefits of gaining ASE certifications. Students may work on their own car or a family car with approval of instructor.

Information and Communications Technology

IT Essentials (Cybersecurity: ICT Essentials) (ROP)
A Code (Fall): **44410**
B Code (Winter): **44411**
School Site: Livermore High School
Length: 2 Trimesters 1 period - 10 Units
Grade Level: 11 - 12
College: UC/CSU "g" Elective Requirement
College Credit: 4 Units
Description: An in-depth exposure to computer hardware and operating systems. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands-on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot problems. An introduction to computer networking is included.

Internet Engineering I (CCNA1)
A Code (Fall): **83383**
B Code (Winter): **83384**
School Sites: Livermore High School
Length: 2 Trimesters/1 Period - 10 Units
College Credit: 3 Units
Grade Level: 11 - 12
College: UC/CSU "g" Elective Requirement
Description: CCNA Routing and Switching curriculum is a gateway to entry-level networking jobs and IT Careers. The curriculum consists of 4, 70-hour courses: Introduction to Networks (Internet Engineering 1 (CCNA1)), Routing and Switching Essentials (Internet Engineering 2 (CCNA2)). Internet Engineering I is an interdisciplinary course designed to prepare students for

post-secondary success in the Information and Communication Technologies (ICT) field. The course engages students with studies of: the history and implications of network communications; the protocols which make the Internet possible; how networks provide access to services; and college and career preparation in the ICT field. This course integrates the theory and application of network communications, and exposes students to media that invites them to consider how Internet engineers think, design, and solve problems. Students have several opportunities to produce college-ready writing, collaborate, research, develop study skills, and develop 21st century skills in this course.

IMPORTANT! This is the first course in a series of three that prepares students for the Cisco CCNA Networking Certification and the A+ Certification Exam.

Internet Engineering II (CCNA2)
A Code (Fall): **83385**
B Code (Winter): **83386**
School Sites: Livermore High School
Length: LHS - 2 Trimesters/1 Period - 10 Units
College Credit: 3 Units
Grade Level: 11 - 12
College: UC/CSU "g" Elective Requirement
Description: Internet Engineering II is a follow-up course to Internet Engineering I. It is designed to prepare students for postsecondary success in the Information and Communication Technologies (ICT) field. The course engages students with studies of the network protocols which make the Internet possible; how networks communicate with one another; methods used to increase scalability, reliability, and security in the modern network; and college and career preparation in the ICT field. This course integrates the theory and application of network communications, exposing students to media that invites them to consider how Internet engineers think, design, and solve problems. Students will produce college=ready writing collaborate with peers and mentors, research solutions to complex challenges, improve student skills and strategies, and develop a Person Learning Network.

IMPORTANT! This is the second course in a series of three that prepares students for the Cisco CCNA Networking Certification and A+ industry certification..

Middle College

Grade Level: 11-12
High school students have the opportunity to apply for Middle College, a junior and senior year program that provides dual enrollment in both high school and college. Middle College is managed by the Tri-Valley Regional Occupational Program (TVROP) and is situated on the campus of Las Positas College. The program is open to students enrolled at public high schools in Livermore, Pleasanton and Dublin. For complete information, please visit: https://www.tvrop.org/domain/49

English

The basic English program covers the broad fields of composition, literature and language, with training in the skills of reading, listening, speaking and writing. The department also offers courses in special phases of reading literature, writing, speech and journalism. In accordance with recommendations in the English Language Arts Framework for California Public Schools, electives have been added to the program.

English 9A/B (P)
A Code: **10010**
B Code: **10020**
Length: 2 Trimesters - 10 Units
Grade Level: 9
College: UC/CSU "b" English Requirement
Description: Students will increase their vocabulary, improve their grammar and develop their writing skills through practice of paragraph and essay writing. They will study literature, learning how to observe carefully the setting, characters, plot, conflict and theme of short stories as well as plays and novels.

Honors English 9A/B (H) (P)
A Code: **10110**
B Code: **10120**
Length: 2 Trimesters - 10 Units
Grade Level: 9
College: UC/CSU "b" English Requirement
Prerequisite: "B" or better in 8th grade English course or teacher consent
Description: Honors English 9 requires rigorous analysis of literature, additional written composition, and more class discussion. This course is an intensive, demanding class that emphasizes advanced composition assignments and projects, including insightful essays and oral presentations that demonstrate a student's critical thinking and awareness of the authors' themes, purposes and perceptions. The student is expected to be able to apply the information gained throughout the class to any literature studied. Students participate in class discussions to develop higher-level thinking skills.

English 10A/B (P)
A Code: **10030**
B Code: **10040**
Length: 2 Trimesters - 10 Units

Grade Level: 10
College: UC/CSU "b" English Requirement
Description: English 10 is a survey course covering reading, writing and vocabulary development. The literature will include short stories, novels, poetry and drama. Students will review sentence structure, punctuation and essay writing.

Honors English 10A/B (H) (P)
A Code: **10130**
B Code: **10140**
Length: 2 Trimesters - 10 Units
Grade Level: 10
College: UC/CSU "b" English Requirement
Prerequisite: "B" or better in 9th grade English course or teacher consent
Description: English 10 Honors is a course that requires rigorous analysis of literature, additional written compositions and more class discussions. This challenging course emphasizes literature, writing, grammar and vocabulary. This course will further develop skills in the analysis and understanding of world literature. Students will be able to distinguish styles and philosophies and will be able to relate them to external social and political events. They will continue to improve their verbal and mechanical skills.

English 11A/B (P)
A Code: **10050**
B Code: **10060**
Length: 2 Trimesters - 10 Units
Grade Level: 11
College: UC/CSU "b" English Requirement
Description: Students will study American and contemporary literature. They will develop an awareness of the social and historical trends influencing our literature as well as develop an understanding of basic values, attitudes and beliefs in our literary heritage. They will also continue to improve their writing skills.

IB Language and Literature HL1 A/B (P)
11A Code: **10570**
11B Code: **10571**
Length: 2 trimesters, 10 units
Grade Level: 11
College: UC/CSU "b" English Requirement (A and B)
Prerequisite: "C" or better in English 10
Description: IB Language and Literature HL 1 is the first year of an intensive two-year college-level course in which students will explore the crucial role language plays in communication, reflecting experience and shaping the world. Students will also learn about their own roles as producers of language and develop their productive skills. Students will explore the various ways in which language choices, text types, literary forms and contextual elements all effect meaning. Through close analysis of various text types and literary forms, students will consider their own interpretations, as well as the critical perspectives of others. Assignments require the analysis of the effects of language, context, audience, and purpose of texts, as well as the evaluation of more than one viewpoint and/ or theme in a text. Ultimately, the course aims to help students, through the study of a variety of texts including articles, essays, advertisements, speeches, novels, poetry, plays, and visual art forms, to become internationally-minded individuals who are aware of the constructs of culture, capable of expressing their thoughts clearly both orally and in writing, and adhering to standard writing conventions. Students may opt to take the IB Language and Literature HL Exam at the end of year two of the course.

IB Language and Literature HL2 A/B (P)
12A Code: **10575**
12B Code: **10576**
Length: 2 trimesters, 10 units
Grade Level: 12
College: UC/CSU "b" English Requirement (A and B)
Prerequisite: Successful completion of IB Language and Literature HL 1 A/B
Description: IB Language and Literature HL 2 is the second year of an intensive two-year college-level course in which students will explore the crucial role language plays in communication, reflecting experience and shaping the world. Students will also learn about their own roles as producers of language and develop their productive skills. Students will explore the various ways in which language choices, text types, literary forms and contextual elements all effect meaning. Through close analysis of various text types and literary forms, students will consider their own interpretations, as well as the critical perspectives of others. Assignments require the analysis of the effects of language, context, audience, and purpose of texts, as well as the evaluation of more than one viewpoint and/ or theme in a text. Ultimately, the course aims to help students, through the study of a variety of texts including articles, essays, advertisements, speeches, novels, poetry, plays, and visual art forms, to become internationally-minded individuals who are aware of the constructs of culture, capable of expressing their thoughts clearly both orally and in writing, and adhering to standard writing conventions. Students may opt to take the IB Language and Literature HL Exam at the end of the course.

AP English Language and Composition A/B (AP) (P)
A Code: **10035**
B Code: **10036**
Length: 2 Trimesters - 10 Units
Grade Level: 11 - 12
College: UC/CSU "b" English Requirement
Prerequisite: "B" or better in 10th grade English course or teacher consent
Description: This college-level course engages students in becoming skilled readers of prose written in a variety

of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading will make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effectiveness in writing. Students will write in informal as well as formal contexts to gain authority and learn to take risks in writing. Imitation exercises, journal keeping, collaborative writing, and in-class responses will help students become increasingly aware of themselves as writers and of the techniques employed by the writers they read. Students will read a wide variety of prose styles from many disciplines and historical periods to gain understanding of the connections between interpretive skill in reading and writing. This course is designed to prepare students for the Advanced Placement Language and Composition Exam and to provide students with an academic experience parallel to that of the college level.

AP English Literature and Composition A/B (AP) (P)
A Code: **10045**
B Code: **10046**
Length: 2 Trimesters - 10 Units
Grade Level: 11 - 12
College: UC/CSU "b" English Requirement
Prerequisite: "B" or better in 10th grade English course or teacher consent
Description: This course focuses on extensive and intensive reading and discussing of serious, college-level literature. Emphasis is placed on analytical, rhetorical and critical analysis, both written and oral. Upon completion of the course, students will be expected to take the Advanced Placement Literature and Composition Exam. This course is designed to provide students with an academic experience parallel to that of the college level as outlined by the College Board in the Advanced Placement program course description.

Senior English Options
CORE OPTIONS

All 12th Grade students MUST complete ten units from the "core options" listed below in order to meet graduation requirements. All core options meet UC/ CSU "b" English requirements.

AP English Language and Composition A/B (AP) (P)
A Code: **10035**
B Code: **10036**
(see above for course description)

AP English Literature and Composition A/B (AP) (P)
A Code: **10045**
B Code: **10046**
(see above for course description)

English 12 A/B (P)
A Code: **10070**
B Code: **10080**
Length: 2 Trimester - 10 Units
Grade Level: 12
College: UC/CSU "b" English Requirement
Prerequisite: English 11
Description: In this course, students will continue to progress as writers and critical thinkers through the study of a variety of writing techniques, communication skills, literary genres and non-fiction texts. Students will continue to develop the skills necessary to be successful in both academics and the workplace.

American Identities Through Ethnic Literature
(Pending Board Approval)


Code: **10149**
Length: 1 Trimester - 5 Units
Grade Level: 12
College: UC/CSU "b" English Requirement (Pending Board Approval)
Prerequisite: Successful completion of English 11
Description: Using fiction, autobiography, poetry and song, this course explores the connections between ethnic identity, literature, and culture in the United States. Rather than focus on one tradition, we will read works by writers from various ethnic backgrounds including African American, Asian American, Latinx, and other American immigrants. Before exploring the literature, we will learn about critical literary theories. These literary theories will provide a foundation for examining the texts. Course topics include the notion of an "American" identity and an "ethnic" identity, race and ideology, immigrant experiences, and cultural encounters with "others". Students will create their own memoir pieces, write informal responses to literature, and draft, develop, and revise a formal literary analysis essay.

Fantasy and Science Fiction (P)
Code: **10016**
Length: 1 Trimester - 5 Units
Grade Level: 12
College: UC/CSU "b" English Requirement
Prerequisite: English 11
Description: This course is designed for students who love to read this particular and popular genre of literature. Students will study the history of science fiction and read representative authors. Students will also study the evolution of fantasy literature from fairy tales and mythology to the genre's present form. Students will conduct independent research in the subject and present their findings to the class. Students will also use a wide variety of technological tools in writing papers and creating presentations.

Mythology (P)
Code: **10143**
Length: 1 Trimester - 5 Units
Grade Level: 12
College: UC/CSU "b" English Requirement
Prerequisite: English 11
Description: This class studies Greco-Roman, Norse and Native American mythology and applies those archetypes to universal and contemporary human experiences. Students will study epic, episodic and philosophical forms of literature and will write essay and narrative pieces.

Satire (P)
Code: **10320**
Length: 1 Trimester - 5 Units
Grade Level: 12
College: UC/CSU "b" English Requirement
Prerequisite: English 11
Description: This course examines satirical literature as a particular genre. Students study satirical literature from multiple centuries of writings. As they learn about satire, students gain useful experience in critical reading, critical and philosophical thinking and analytical writing. Students examine history connected with the literature studied. Students must be able to read college-level works of literature. They will produce major papers, a final project and a final paper.

Shakespeare (P)
Code: **10141**
Length: 1 Trimester - 5 Units
Grade Level: 12
College: UC/CSU "b" English Requirement
Prerequisite: English 11
Description: Students will study Shakespearean plays, sonnets and the life and times of Shakespeare himself. Students will also produce major papers that will reflect their understanding of the significant ideas and themes in Shakespeare's literature. *Othello*, *Twelfth Night*, *The Merchant of Venice*, *Richard II*, *Much Ado About Nothing* and *Henry V* are among the titles that will be covered in this class. Activities will include reader's theatre, dramatic readings, stage direction, recreation of scenes in diverse genres and writing research and critical analysis papers.

Short Story (P)
Code: **10370**
Length: 1 Trimester - 5 Units
Grade Level: 12
College: UC/CSU "b" English Requirement
Prerequisite: English 11
Description: This elective course emphasizes and unites both analytical and creative aspects of the short story. Students focus on the short story and experience writing as a process. Analytical skills are developed through the critique of short stories and essay writing, whereas the creative skills are developed through exercises, short writes, dialogues, and original short stories, that enable the student to model the process of professional writers. Such exercises also enable students to move into, through and beyond the literature and grapple with major themes and ideas. Assignments foster critical thinking and develop creative skills.

English Electives
NON-CORE OPTIONS

Juniors who are concurrently enrolled in or who have completed English 11B, and seniors who are concurrently enrolled in or have completed 10 units of "core" courses may take additional English elective courses. Juniors and seniors would take these courses in either the second trimester or third trimester.

Creative Writing (P)
Code: **10360**
Length: 1 Trimester - 5 Units
Grade Level: 12
College: UC/CSU "g" Elective Requirement
Prerequisite: English 11
Description: This elective course is student-centered, offering opportunities for students to pursue specific personal writing goals, journal writing, creative writing, etc. Students will have opportunities to explore related areas such as word processing and electronic research. Students will also explore methods of writing different genres of literature, including the short story, the poem, the play and personal narrative. Students will study rhetorical techniques such as parallelism, figures of speech, allusion, symbolism and imagery. Students will become critics of writing through the study of various authors in both literary texts and instructional writing texts. Students will participate in peer review activities.

English Learner (EL) Program

English Learners receive language instruction appropriate to their individual needs as determined by the English Language Proficiency Assessments for California (ELPAC) and other state and district approved measures. Students earn 10 units of English credit for ELD 1 or ELD 2. Additional ELD courses receive elective credit. ELD courses follow the California English Language Development standards and are aligned with the California Content Standards for English Language Arts.

English Language Development is a series of levels in language acquisition designed to teach students who are speakers of another language to become fluent in English. The levels cover a range of language skills from non-English speaking to near fluency in speaking,

listening, reading and writing English.

All teachers at Granada High School have CLAD certification and are therefore trained to differentiate instruction in all subject areas for English Learner students.

ELD 1
A Code (Fall): **10800**
B Code (Winter): **10810**
C Code (Spring): **10811**
Length: 3 Trimesters - 5 Units Each
Grade Level: 9 - 12
Prerequisite: Score 1 or 2 on ELPAC
Description: Students acquire basic English: listening, speaking, reading and writing. Students receive instruction in English to acquire the language and skills necessary to be in transition to fluency in English. Technology enhanced ELD and Specially Designed Academic Instruction in English (SDAIE) content area instruction provide additional academic support to English Learners.

ELD 2
A Code (Fall): **10820**
B Code (Winter): **10830**
C Code (Spring): **10831**
Length: 3 Trimesters - 5 Units Each
Grade Level: 9 - 12
Prerequisite: Score of 2 or 3 on ELPAC
Description: This course emphasizes listening, speaking, reading and writing English. Technology enhanced ELD and Specially Designed Academic Instruction in English (SDAIE) content area instruction provide additional academic support to English Learners.

Mathematics

The Mathematics Program offers a college-preparatory sequence of Algebra I, Geometry and Algebra II, as well as Honors Algebra II. Advanced mathematics courses include Trigonometry, Precalculus, Calculus and Advanced Placement Calculus, Statistics and Advanced Placement Statistics, as well as IB Math Studies and IB Math HL.

Math placement for incoming 9th grade students is based upon a comprehensive analysis of testing history, math course grades and teacher comments. The objective is to place students in the course that best allows them to progress through the math sequence in high school. The goal at Granada High School is to have every 9th grade student complete Algebra I or higher.

Granada students may choose to take each of the CSU/ UC required math courses of Algebra I, Geometry and Algebra II in a year-long, three-trimester program, or a faster-paced, two-trimester program . The decision to take the two-trimester program should be based on the student's past history in math and his/her comfort level in moving at a quick pace. Students will meet the California State Standards AND be prepared for the next level of math by taking any sequence.

Algebra I (P)

Codes:	**Three-Trimester**		**Two-Trimester**
	Intro to Algebra I	**20075**	Alg 1A **20037**
	Algebra I A	**20080**	Alg 1B **20038**
	Algebra I B	**20090**	

Length: 2 or 3 Trimesters - 5 Units Each
College: UC/CSU "c" Mathematics Requirement (Intro to Algebra meets GHS math elective requirement only)
Description: Algebra I provides formal development of the algebra concepts and skills necessary for students who will take geometry and other advanced college-preparatory courses. Topics include solving, graphing and writing linear equations, solving and graphing linear inequalities, solving systems of linear equations, powers and exponents, quadratic equations, polynomials and factoring, proportions and rational equations, functions, radicals and connections to geometry. Students demonstrate their knowledge of basic skills, conceptual understanding and problem solving with numbers and operations. Mathematical reasoning and communication skills are interwoven throughout the course.

Geometry (P)

Codes:	**Three-Trimester**		**Two-Trimester**
	Intro to Geometry	**20115**	Geom A **20121**
	Geometry A	**20120**	Geom B **20131**
	Geometry B	**20130**	

Length: 2 or 3 Trimesters - 5 Units Each
College: UC/CSU "c" Mathematics Requirement (Intro to Geometry meets GHS math elective requirement only)
Prerequisite: Completion of Algebra I
Description: Geometry introduces geometric reasoning as a method for problem solving. Topics include: angles, triangles, polygons, parallel lines and planes, congruence and similarity, right triangles, circles, coordinate geometry, areas of polygons and circles, surface areas and volumes of solids, transformations, constructions, proofs and right triangle trigonometry. Emphasis is placed on deductive reasoning, logic and problem solving including the writing of proofs.

Trigonometry (P)
Code: **20181**
Length: 1 Trimesters – 5 Units
College: UC/CSU "g" Mathematics Requirement
Prerequisite: Completion of Algebra II
Description: This course provides study of basic trigonometry before students enroll in Precalculus. The scope of the course will include all elements of the

foundational triangle trig functions with an emphasis toward modeling and application. There will be an in-depth study of the unit circle using both radian and degree measurement, which are essential for success in Precalculus and beyond. Graphs of all six trigonometric functions and their inverses will be studied, as well as developing, solving and verifying trigonometric identities. Additionally, a deeper understanding of expanded topics of trig, conic sections, logarithms, exponential functions, and complex numbers will be developed.

Consumer Math A/B (P)
A Code: **20681**
B Code: **20691**
Length: 2 Trimesters – 10 Units
College: UC/CSU "g" Mathematics Requirement
Prerequisite: Completion of Algebra I
Description: This course is designed to provide students with the ability to further their math skills by applying them to life applications such as budgeting money, calculating earnings, taxes, credit cards, loans, etc. Students will learn how to communicate ideas in a variety of settings, as well as employ problem-solving skills effectively. They will demonstrate critical thinking skills to real-life projects that show a high degree of relevance to becoming an adult consumer in the near future.

Algebra II (P)

Codes:	**Three-Trimester**		**Two-Trimester**
	Intro to Algebra II	**20155**	Alg II A **20173**
	Algebra II A	**20160**	Alg II B **20174**
	Algebra II B	**20170**	

Length: 2 or 3 Trimesters - 5 Units Each
College: UC/CSU "c" Mathematics Requirement (Intro to Algebra II meets GHS math elective requirement only)
Prerequisite: Completion of Algebra I with "C" or better
Description: Algebra II is a rigorous course intended for college bound students. This discipline complements and expands the mathematical content of Algebra I and Geometry. Topics include linear, quadratic, logarithmic, exponential and polynomial functions and relations: complex numbers, quadratic equations, linear and quadratic systems, sequences, series, matrices, permutations, combinations, statistics and probability. Graphing calculators will be used in conjunction with the curriculum.

Precalculus (P)

Codes:	**Three-Trimester**		**Two-Trimester**
	Intro to Precalculus	**20195**	Precalc A **20200**
	Precalculus A	**20196**	Precalc B **20210**
	Precalculus B	**20197**	

Length: 2 or 3 Trimesters - 5 Units
College: UC/CSU "c" Mathematics Requirement
Prerequisite: Completion of Geometry and Algebra II with a "C" or better
Description: This course provides a thorough study of the trigonometry functions (inverse and applications), advanced algebraic expressions, equations, inequalities, matrices, conics (with translations), complete analysis of polynomial, rational, logarithmic and exponential functions including graphics calculator applications, vectors, polar coordinates, sequences, series, summation and a brief introduction to complex numbers and limits. Graphing calculators will be used in conjunction with curriculum.

IB Mathematics: Applications and Interpretation SL 1 A/B/C
A Code: **20227**
B Code: **20228**
C Code: **20229**
Length: 3 Trimesters - 15 Units
Grade Level: 11
College: UC/CSU "c" Mathematics Requirement
Prerequisite: Geometry
Description: IB Math Applications and Interpretation Standard Level (SL) A/B/C is the first year of a two-year course focusing on developing important mathematical concepts in a comprehensible, coherent, engaging and rigorous way. Students are encouraged to apply their mathematical knowledge to solve problems set in a variety of meaningful contexts. Development of each topic will feature justification and proof of results. Students embarking on this course should expect to develop insight into mathematical form and structure, and should be intellectually equipped to appreciate the links between concepts in different topic areas, and to develop the skills needed to continue their mathematical growth in other learning environments. IB Math Applications and Interpretation SL has an emphasis on statistics, modeling and use of technology and is appropriate for those with an interest in the applications of mathematics and how technology can support this. This course is aimed at students who will go on to study subjects such as social sciences, natural sciences, statistics, business, some economics courses, psychology, and design.

IB Math Applications and Interpretation SL core topics of study include Statistics and Probability, Calculus, Algebra, Functions, Geometry and Trigonometry. This IB Math course includes an Internal Assessment Project, the Mathematical Exploration, which gives students an opportunity to independently investigate real-world mathematical problems and seek solutions in a process of mathematical investigation or modeling.

IB Mathematics: Applications and Interpretation SL A/B/C
A Code: **20251**
B Code: **20252**
C Code: **20253**
Length: 3 Trimesters - 15 Units

Grade Level: 12
College: UC/CSU "c" Mathematics Requirement
Prerequisite: Successful completion of IB Mathematics Applications and Interpretation SL 1 A/B/C.
Description: This course is the second year of a two year course. IB Math Applications and Interpretation Standard Level (SL) A/B/C focuses on developing important mathematical concepts in a comprehensible, coherent, engaging and rigorous way. Students are encouraged to apply their mathematical knowledge to solve problems set in a variety of meaningful contexts. Development of each topic will feature justification and proof of results. Students embarking on this course should expect to develop insight into mathematical form and structure, and should be intellectually equipped to appreciate the links between concepts in different topic areas, and to develop the skills needed to continue their mathematical growth in other learning environments. IB Math Applications and Interpretation SL has an emphasis on statistics, modeling and use of technology and is appropriate for those with an interest in the applications of mathematics and how technology can support this. This course is aimed at students who will go on to study subjects such as social sciences, natural sciences, statistics, business, some economics courses, psychology, and design. **IB exam will be offered and students may earn college credit.**

IB Math Applications and Interpretation SL core topics of study include Statistics and Probability, Calculus, Algebra, Functions, Geometry and Trigonometry. This IB Math course includes an Internal Assessment Project, the Mathematical Exploration, which gives students an opportunity to independently investigate real-world mathematical problems and seek solutions in a process of mathematical investigation or modeling.

IB Mathematics: Analysis and Approaches SL 1 A/B
A Code: **20245**
B Code: **20246**
Length: 2 Trimesters - 10 Units
Grade Level: 11
College: UC/CSU "c" Mathematics Requirement
Prerequisite: Algebra II
Description: This course is the first year of a two year course. IB Math Analysis and Approaches Standard Level (SL) 1 A/B focuses on developing important mathematical concepts in a comprehensible, coherent, engaging and rigorous way. Students are encouraged to apply their mathematical knowledge to solve problems set in a variety of meaningful contexts. Development of each topic will feature justification and proof of results. Students embarking on this course should expect to develop insight into mathematical form and structure, and should be intellectually equipped to appreciate the links between concepts in different topic areas, and to develop the skills needed to continue their mathematical growth in other learning environments. This course focuses on analytic methods with an emphasis on calculus, and is appropriate for pure mathematicians, engineers, scientists, economists, and students with an interest in analytic methods. It is aimed at students who will go on to study subjects with substantial mathematics content such as mathematics itself, engineering, physical sciences, or some economics courses.

Core topics of study include Algebra, Functions and Equations, Circular functions and Trigonometry, Vectors, Statistics and Probability, Calculus, Sets, relations and groups and Discrete mathematics. This IB course includes an Internal Assessment Project, the Mathematical Exploration, which gives students an opportunity to independently investigate real-world mathematical problems and seek solutions in a process of mathematical investigation or modeling.

IB Mathematics: Analysis and Approaches SL A/B/C
A Code: **20261**
B Code: **20262**
C Code: **20263**
Length: 3 Trimesters - 15 Units
Grade Level: 12
College: UC/CSU "c" Mathematics Requirement
Prerequisite: Successful completion of IB Mathematics Analysis and Approaches SL 1 A/B
Description: IB Math Analysis and Approaches Standard Level (SL) 1 A/B/C is the second year of a two-year course focusing on developing important mathematical concepts in a comprehensible, coherent, engaging and rigorous way. Students are encouraged to apply their mathematical knowledge to solve problems set in a variety of meaningful contexts. Development of each topic will feature justification and proof of results. Students embarking on this course should expect to develop insight into mathematical form and structure, and should be intellectually equipped to appreciate the links between concepts in different topic areas, and to develop the skills needed to continue their mathematical growth in other learning environments. This course focuses on analytic methods with an emphasis on calculus, and is appropriate for pure mathematicians, engineers, scientists, economists, and students with an interest in analytic methods. It is aimed at students who will go on to study subjects with substantial mathematics content such as mathematics itself, engineering, physical sciences, or some economics courses.

Core topics of study include Algebra, Functions and Equations, Circular functions and Trigonometry, Vectors, Statistics and Probability, Calculus, Sets, relations and groups and Discrete mathematics. This IB course includes an Internal Assessment Project, the Mathematical Exploration, which gives students an opportunity to independently investigate real-world

mathematical problems and seek solutions in a process of mathematical investigation or modeling. **IB exam will be offered and students may earn college credit.**

IB Mathematics: Analysis and Approaches HL 1 A/B
A Code: **20241**
B Code: **20242**
Length: 2 Trimesters - 10 Units
Grade Level: 11
College: UC/CSU "c" Mathematics Requirement
Prerequisite: Algebra II
Description: IB Math Analysis and Approaches Higher Level (HL) 1 A/B is the first year of a two-year course focusing on developing important mathematical concepts in a comprehensible, coherent, engaging and rigorous way. Students are encouraged to apply their mathematical knowledge to solve problems set in a variety of meaningful contexts. Development of each topic will feature justification and proof of results. Students embarking on this course should expect to develop insight into mathematical form and structure, and should be intellectually equipped to appreciate the links between concepts in different topic areas, and to develop the skills needed to continue their mathematical growth in other learning environments. This course focuses on analytic methods with an emphasis on calculus, and is appropriate for pure mathematicians, engineers, scientists, economists, and students with an interest in analytic methods. It is aimed at students who will go on to study subjects with substantial mathematics content such as mathematics itself, engineering, physical sciences, or some economics courses.

IB Math Analysis and Approaches HL covers all the content in the IB Standard Level (SL) course and adds additional calculus content and more depth in all areas of study. Core topics of study include Algebra, Functions and Equations, Circular functions and Trigonometry, Vectors, Statistics and Probability, Calculus, Sets, relations and groups and Discrete mathematics. This IB HL Math course includes an Internal Assessment Project, the Mathematical Exploration, which gives students an opportunity to independently investigate real-world mathematical problems and seek solutions in a process of mathematical investigation or modeling.

IB Mathematics: Analysis and Approaches HL 2 A/B/C
A Code: **20243**
B Code: **20244**
C Code: **20249**
Length: 3 Trimesters - 15 Units
Grade Level: 12
College: UC/CSU "c" Mathematics Requirement
Prerequisite: Successful completion of IB Mathematics HL 1 A/B
Description: IB Math Analysis and Approaches Higher Level (HL) 1 A/B/C is the second year of a two-year course focusing on developing important mathematical concepts in a comprehensible, coherent, engaging and rigorous way. Students are encouraged to apply their mathematical knowledge to solve problems set in a variety of meaningful contexts. Development of each topic will feature justification and proof of results. Students embarking on this course should expect to develop insight into mathematical form and structure, and should be intellectually equipped to appreciate the links between concepts in different topic areas, and to develop the skills needed to continue their mathematical growth in other learning environments. This course focuses on analytic methods with an emphasis on calculus, and is appropriate for pure mathematicians, engineers, scientists, economists, and students with an interest in analytic methods. It is aimed at students who will go on to study subjects with substantial mathematics content such as mathematics itself, engineering, physical sciences, or some economics courses. **IB exam will be offered and students may earn college credit.**

IB Math Analysis and Approaches HL covers all the content in the IB Standard Level (SL) course and adds additional calculus content and more depth in all areas of study. Core topics of study include Algebra, Functions and Equations, Circular functions and Trigonometry, Vectors, Statistics and Probability, Calculus, Sets, relations and groups and Discrete mathematics. This IB HL Math course includes an Internal Assessment Project, the Mathematical Exploration, which gives students an opportunity to independently investigate real-world mathematical problems and seek solutions in a process of mathematical investigation or modeling.

Statistics A/B (P)
A Code: **20255**
B Code: **20256**
Length: 2 Trimesters - 10 Units
College: UC/CSU "c" Mathematics Requirement
Prerequisite: Completion of Algebra II with "C" or better
Description: This course introduces students to the major concepts and tools for collecting and analyzing data, and drawing conclusions. There are four conceptual themes in the course: exploring data, planning and designing a study, recognizing characteristics of data, and statistical inference. Students will learn to use both graphical analysis and numerical techniques to study univariate and bivariate data; collect data for both observational studies and experiments; use probabilities and recognize various distributions; use confidence intervals, z, t, and chi-squared tests of significance; and be able to employ both calculator and computer software techniques of analysis, as well as interpret data from these sources. The course is designed to expose students to one of the fastest growing areas in business and informational analysis and allow them to demonstrate each topic with applications that are both from diverse areas of life and of personal interest to students.

AP Statistics A/B (AP) (P)
A Code: **20260**
B Code: **20270**
Length: 2 Trimesters - 10 Units
College: UC/CSU "c" Mathematics Requirement
Prerequisite: Completion of Algebra II with "C" or better
Description: The purpose of this Advanced Placement Statistics course is to introduce students to the major concepts and tools for collecting and analyzing data, and drawing conclusions. There are four conceptual themes in the course: exploring data, planning a study, anticipating patterns and statistical inference. Students will learn to use graphical and numerical techniques to study univariate and bivariate data; conduct surveys and experiments to collect data; use probabilities and distributions to study data; and employ confidence intervals, t-distributions, and tests of significance to study statistical models. This course is designed to provide students with an academic experience parallel to that of the college level. Upon completion of the course, students will be expected to take the Advanced Placement Statistics Exam.

Seminar for AP Statistics
Code: **20271**
Length: 1 Trimester - 5 Units (only offered Trimester 3)
College: Does NOT meet UC/CSU requirement
Prerequisite: AP Statistics
Description: This is a course designed for students who plan to take the AP exam in Statistics. Students will learn additional topics and get practice in advanced statistical concepts and applications, including practice in creating and administering surveys. The additional material will help prepare students for the Advanced Placement exam in May.

Calculus A/B (P)
A Code: **20215**
B Code: **20216**
Length: 2 Trimesters – 10 Units
College: UC/CSU "c" Mathematics Requirement
Prerequisite: Precalculus, "C" or better
Description: This course is for students who have successfully completed Precalculus and do not wish to enroll in an AP-level course for exposure to Calculus. It will provide a review of functions including trigonometric, exponential, and logarithmic. An introduction to limits and continuity, difference quotients, the derivative, and the definite integral will be provided, as well as techniques and applications of differentiation and integration. This class offers continuity of the rigors of advanced math, as well as a more solid base from which to enter college-level Calculus.

AP Calculus AB (AP) (P)
A Code: **20221**
B Code: **20222**
Length: 2 Trimesters - 10 units
Grade Level: 11 - 12
College: UC/CSU "c" Mathematics Requirement
Prerequisite: "C" or better in Precalculus
Description: This course requires students to draw from the skills and knowledge from previous Math courses. Calculus is the study of change. Using geometrical, numerical and analytical methods, we will study how things change. During this study we will focus on both differential and integral calculus. The course is taught "workshop" style where students often work on the whiteboards in small groups to solve problems. Math labs are used to illustrate key applications. Calculus AB is recommended for college-bound students who plan to major in science, engineering, economics, business or mathematics. Students who take the course will cover one semester of college Calculus.

AP Calculus BC (AP) (P)
A Code (Fall): **20231**
B Code (Winter): **20232**
C Code (Spring): **20233**
Length: 3 Trimesters - 15 units
Grade Level: 11 - 12
College: UC/CSU "c" Mathematics Requirement
Prerequisite: "C" or better in Precalculus
Description: This course has more content than the AP Calculus AB course and is designed for those planning math, science or engineering careers, and requires students to draw from the skills and knowledge from previous Math courses. Using geometrical, numerical, and analytical methods, we will study how things change. During this study, we will focus on both differential and integral calculus as well as limits and series. This course is taught "workshop" style where students often work on the whiteboards in small groups to solve problems. Math labs are used to illustrate key applications. This course is designed to provide students with an academic experience parallel to that of two semesters of a college-level physical science/ engineering Calculus course.

Note: Students may choose to take Calculus AB one year and Calculus BC the following year.

Seminar for AP Calculus
Code: **20237**
Grade Level: 11 - 12
Length: 1 Trimester - 5 units
Prerequisite: AP Calculus AB
Description: This is a course designed for students who plan to take the AP exam in Calculus. Students who would like to learn additional topics and get practice in advanced mathematics concepts would benefit from this course. The additional material will help prepare students for the AP exam in May as well as prepare them for more advanced topics found in a University math course.

Multivariable Calculus (H) (P)
Code: **20218**
Length: 1 Trimester—5 units
College: UC/CSU "c" Mathematics Requirement
Grade Level: 11-12
Prerequisite: "C" or better in BC Calculus
Description: This course extends the Calculus series. Students who have successfully completed BC Calculus and intend to pursue a degree in mathematics, engineering, computer programming, or science are encouraged to enroll. Its purpose is to promote a deeper understanding of calculus concepts by giving the opportunity for students to apply their Calculus knowledge to functions of multiple variables. Topics include: vector analysis, functions in several variables, partial derivatives, multiple integration, integration of vector valued functions, and applications.

Physical Education

The Physical Education Program is offered throughout the four years of high school. Two years are required for graduation. Objectives are to develop a level of physical fitness and health that will enable the student not only to meet the physical requirements of everyday living, but also to enjoy life. The program strives to develop physical and sports skills along with instilling the desire to use those skills for recreation during leisure periods as a student and as an adult.

Note: Students will be required to continue to enroll in Physical Education each year until they pass the California Physical Fitness Test.

Physical Education 1A/B
A Code: **20810**
B Code: **20820**
Length: 2 Trimesters - 10 Units
Grade Level: 9
Description: The Physical Education program at the freshman level emphasizes fitness, team sports, dance and aquatics. Students will learn how to develop their own weight and fitness programs and experience different activities learning beginning to intermediate skills, game strategies and sportsmanship. Students will also learn basic water safety skills and will become more proficient in their swimming abilities.

Physical Education 2A/B
A Code: **20830**
B Code: **20840**
Length: 2 trimesters - 10 units
Grade Level: 10 - 12
Prerequisite: PE 1A/B
Description: PE 2A/B is designed to introduce students to a variety of sports and physical activities. Each activity will expand upon the foundation provided in the 9th grade curriculum for making appropriate choices for physical wellness and fitness. The purpose is to learn the principles and values of lifetime fitness by participating in physical activities. Participation in these activities will result in a better understanding of lifelong fitness. Students are expected to learn more advanced skills and strategies and demonstrate them in game situations.

Physical Education Electives

These courses are intended to supplement the basic PE 1 and PE 2 courses and receive elective credit.

Aerobics/Yoga
Code: **21010**
Length: 1 Trimester - 5 units
Grade Level: 10 - 12
Prerequisite: PE 2A/B
Description: Aerobics is a one-trimester elective course in which students exercise to music and video aids. Activities include low-impact aerobic dance, aerobic kickboxing, yoga, Pilates and body sculpting.

Advanced Sports Activities
Code: **20815**
Length: 1 Trimester - 5 units
Prerequisite: PE 2A/B
Description: This is an individual and team sports activity-based course designed for students who wish to continue physical education after successfully completing PE 2A/B. This course will add to students' base of knowledge through activities including badminton, volleyball and basketball, and will introduce a wide range of other activities such as archery, gymnastics/tumbling, tennis and golf.

Fitness/Bowling
Code: **20960**
Length: 1 Trimester - 5 units
Grade Level: 11 - 12
Prerequisite: PE 2A/B
Description: Individualized health and fitness programs will be developed to improve strength, body tone, flexibility and cardiovascular wellbeing. Students will also learn bowling skills and participate in league play. This class includes meetings off -campus three days a week at Granada Bowl. Students are responsible for transportation to/from bowling alley.

Volleyball/Fitness
Code: **20941**
Length: 1 Trimester - 5 units
Grade Level: 9 - 12
Description: This course is designed to give students the opportunity to learn through a comprehensive, sequentially planned kinesiology and physical

education program, in accordance with the California Model Content Standards for Physical Education. This course will build upon the standards in PE Courses 1A/B and 2A/B, and is designed as an elective PE class for students interested in the sports of volleyball and lifelong fitness.

Human Performance
Fall: **20827**
Winter: **20828**
Spring: **20829**
Length: 1 Trimester - 5 Units (may be repeated for credit)
Grade Level: 9 - 12 ***(updated 3/18/2021)***
Prerequisite: On a GHS athletic team or teacher consent
Description: This class is designed to provide an opportunity during the school day for athletes to participate in a structured strength and athletic enhancement program. This class is geared toward the student who shows an above average interest and ability in physical education through participation on an athletic team.

Athletics
Fall: **88001**
Winter: **88002**
Spring: **88003**
Length: 1 Trimester - 5 Units (may be repeated for credit)
Grade Level: JV and Varsity athletes. Class is pass/fail.
Description: Granada High athletes have the opportunity to build athletic time into their day by signing up for Athletics during period five of the trimester that their sport is in season. Listed below are the sports offered each season. Athletes are strongly encouraged to sign up for an athletic fifth period if their sport travel necessitates that they miss significant class time. We encourage all athletes to consider this course if their academic load allows it. Please check with your coach to see how that time period will be utilized.

CIF Sports PE Exemption
Fall: **21015**
Winter: **22015**
Spring: **23015**
Grade Level: 10 - 12
Prerequisite: Participation in a CIF approved sport, "B-" or better in PE 1A/B and passing score on the CA FitnessGram. This class is pass/fail.
Description: This exemption provides student athletes the option of earning PE credit for their active participation in a California Interscholastic Federation (CIF) approved sport. Refer to the Interscholastic Sports Exemption Contract on the Granada High web page for further details and requirements. Students may earn a maximum of 10 units of credit through this exemption.

Science

An understanding of the process and content of science and consideration of the ethical issues associated with technology are important aspects of the basic education of all students. One year of biological science (i.e. Biology) and one year of physical science (i.e. Physics or Chemistry) are State-mandated graduation requirements. Students who demonstrate an ability and interest in science have the opportunity to pursue advanced courses that focus on depth of concepts, laboratory work and individual investigations.

Biotechnology Pathway

The Granada Biotechnology Pathway is offered to students interested in a career or college major in biology, biotechnology or health-related fields. The biotechnology industry is a rapidly growing field and its techniques are used in medicine, forensics, agriculture, environmental science and basic research. The Pathway requires that students take certain related courses in sequence. Four courses make up the bulk of the program: Biotechnology 1, Biotechnology 2, Biochemistry and Chemistry. The courses will be skills-based with emphasis on mastery of proper laboratory technique. There are two options for completion: the University Pathway and the Technical Career Pathway. Students who complete all the requirements of the pathway will receive a cord their senior year. Applications are available from the science department.

Health

Health Education (P)
Code: **30000**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "g" Elective Requirement
Note: This course meets the guidelines of the Health Framework and is a graduation requirement.
Description: The Health Education course will help students to develop life-long, positive health-related behaviors and will provide students with information, decision-making skills, and resources that will encourage thoughtful and responsible behavior. Units of study will include: Nutrition and Physical Activity; Growth, Development, and Sexual Health; and Personal and Community Health. This course includes self-directed learning activities that will provide practical skills that will enhance students" health and wellness. Health Education will ensure that students meet the California Health Education Content Standards and

fulfill the California Education Code requirements for teaching comprehensive sexual health. *Alternate assignments will be provided upon written request for students whose parents wish to opt out of the sexual health unit.*

Life Sciences

Biology 1A/B (P)
A Code: **30070**
B Code: **30080**
Length: 2 Trimesters - 10 Units
Grade Level: 9 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: Recommended completion of Algebra I .
Description: Biology is a rigorous, lab-oriented course that prepares students for college biology. Topics include evolution, genetics, reproduction, cells, ecology and biotechnology.

IB Biology HL1 (P)
A Code: **30342**
B Code: **30343**
Length: 2 trimesters, 10 units
Grade Level: 11
College: UC/CSU "d" Laboratory Science Requirement
Prerequisite: "C" or better in Biology 1A/B and Chemistry 1A/B or teacher consent
Description: This is the first portion of a two-year course. IB Biology HL is designed to match the rigor of a college-level introductory biology course, and investigates the unity and diversity of living organisms on the molecular, cellular, organic and ecological levels, thus covering microbiology and macro biology. The course focuses on genetics, evolution, human reproduction, physiology, cell respiration, neurobiology, and immune systems, with strong emphasis on studying the interrelationships between organisms and environments, as well as the relevance of biological principles to human beings. Students will have multiple opportunities for scientific study and creative inquiry within a global context via practical lab work, a student run individual laboratory investigation and a collaborative project (Group 4) with IB Chemistry and IB Physics students. IB assessment labs will be evaluated according to the IB assessment standards.

IB Biology HL2 (P)
A Code: **30344**
B Code: **30345**
Length: 2 trimesters, 10 units
Grade Level: 12
College: UC/CSU "d" Laboratory Science Requirement
Prerequisite: "C" or better in Biology IB HL1
Description: This is the second portion of a two-year course. IB Biology HL is designed to match the rigor of a college-level introductory biology course, and investigates the unity and diversity of living organisms on the molecular, cellular, organic and ecological levels, thus covering microbiology and macro biology. The course focuses on genetics, evolution, human reproduction, physiology, cell respiration, neurobiology, and immune systems, with strong emphasis on studying the interrelationships between organisms and environments, as well as the relevance of biological principles to human beings. Students will have multiple opportunities for scientific study and creative inquiry within a global context via practical lab work, a student run individual laboratory investigation and a collaborative project (Group 4) with IB Chemistry and IB Physics students. IB assessment labs will be evaluated according to the IB assessment standards.

AP Biology A/B (AP) (P)
A Code: **30330**
B Code: **30340**
Length: 2 Trimesters - 10 Units
Grade Level: 11 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: "C" or better in Biology 1A/B and Chemistry 1A/B or teacher consent
Description: The Advanced Placement Biology course is subdivided into three major categories: Molecules and Cells, Heredity and Evolution, and Organisms and Populations. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation for science as a process. This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. As a result, the AP Biology program requires exceptional effort and dedication on the part of the student.

Seminar for AP Biology
Code: **30341**
Length: 1 Trimester - 5 Units (only offered Trimester 3)
Grade Level: 11 - 12
College: Does NOT meet UC/CSU requirement
Prerequisite: AP Biology A/B
Description: The Seminar for AP Biology course will provide students with extensive practice for the Advanced Placement Exam offered in May, as well as additional exploration of topics in Biology. Strongly recommended for all AP Biology students.

Biotechnology 1A/B (P)
A Code: **30090**
B Code: **30095**
Length: 2 Trimesters - 10 Units
Grade Level: 10 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: Algebra 1A/B, and Biology 1A/B with a "C" or better.
Description: Biotechnology is a rapidly growing field that impacts all our lives. Basically, biotechnology involves manipulation of organisms or their parts,

specifically DNA and protein, to produce a product. From medicine to agriculture to environmental science, biotechnology has revolutionized how biology is done. This skills-based course, which is part of the newly established Granada Biotechnology Pathway, will teach "SLOP," the Standard Lab Operating Procedures that every lab worker must master. SLOP includes safety, documentation, experimental design, data analysis and reporting, solution preparation, sterile technique, cell culture, DNA isolation and analysis, and protein isolation and analysis.

Biotechnology 2A/B (P)
A Code: **30096**
B Code: **30097**
Length: 1-2 Trimesters - 5 Units each
Grade Level: 10 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: "C" or better in Biotechnology 1A/B
Description: This course is the second in the series that will prepare students for a career as a lab technician or will prepare them for further study at a 4-year college. Students will learn more advanced techniques in biotechnology and will be working more independently.
Note: Biotechnology 2B will be offered in the winter and will be for students interested in doing independent research projects.

Marine Biology A/B (P)
A Code: **30310**
B Code: **30320**
Length: 2 Trimesters - 10 Units
Grade Level: 11 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: Completion of, or concurrent enrollment in Algebra 1A/B. "C" or better in Biology 1A/B.
Description: Marine Biology is the study of plants and animals inhabiting the natural ocean communities of California. The relationship between the natural environment and humans is a logical outgrowth of this study and is emphasized during the year. This course is intended for students who are interested in learning about and spending time in the outdoors and/or are considering a college major in the biological sciences. Fieldwork constitutes an important part of this course.

Medical Occupations (ROP)
See page 21 in the ROP section for course description.

Sports Medicine/Athletic Trainer (ROP) (P)
See page 21 in the ROP section for course description.

Sports Medicine/Athletic Trainer II(ROP) (P)
See page 23 in the ROP section for course description.

Physiology A/B (P)
A Code: **30350**
B Code: **30360**
Length: 2 Trimesters - 10 Units
Grade Level: 11 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: Biology 1A/B and Chemistry 1A/B. Chemistry 1A/B may be taken concurrently with teacher consent.
Description: Physiology is the study of the structure and function of the human body with emphasis on anatomy and chemical principles involved. It is a lab-oriented course with major dissection. Students will engage in discussions concerning ethical, philosophical and personal health aspects of current anatomy and physiology issues. The course should be of special interest to students in medical-related fields. Course requirements: Adequate study time must be allotted for lab write-ups, dissection, homework problems and preparation for tests and quizzes. Good study habits and/or a high degree of motivation are considered prerequisites for this course.

Field Biology A/B (P)
A Code: **30210**
B Code: **30220**
Length: 2 Trimesters - 10 Units
Grade Level: 11 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: Completion of, or concurrent enrollment in Algebra 1A/B. "C" or better in Biology 1A/B.
Description: Field Biology was developed for students with an interest in studying the native animals and plants of California through the use of field guides, preserved specimens, personal collections, and actual field studies. Students taking Field Biology are expected to have a high level of motivation for using keys to identify land mammals, birds, insects, and native trees and shrubs. Principles of ecology and conservation are also emphasized. Students must learn scientific names and be able to classify organisms at all levels of taxonomic system (kingdom through species).

Physical Sciences

Astronomy A/B (P)
A Code: **83085**
B Code: **83086**
Length: 2 Trimesters - 10 Units
Grade Level: 10 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: Geometry or teacher consent
Description: This course will provide students with astronomical literacy needed to appreciate the latest discoveries and theories about the various phenomena in our universe. Students will learn why the Big Dipper never sets, how a black hole in the center of the galaxy was discovered, how astronomers discover planets around other stars, and how astronomers learned that 90% of the matter in the universe is invisible. While exploring the nature of the universe, students will gain insight into how astronomical knowledge is obtained through observation, mathematics and reason.

Biochemistry (P)
Code: **30098**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: Algebra I, Chemistry 1A/B
Description: This lab-based introductory biochemistry class is an extension of Chemistry for Biotechnology. It builds upon students' knowledge of general chemistry and is designed to prepare students for life science courses in college. This course provides students with a preliminary understanding of the basic principles of biochemistry, expanding upon the basic concepts of organic chemistry and biochemistry, as outlined in the California State Science Standards for Chemistry. Throughout this course, students will gain confidence in studying a scientific discipline and acquire an appreciation for the field of biochemistry. Students will also explore the many career opportunities found in this area of study.

Chemistry 1A/B (P)
A Code: **30150**
B Code: **30160**
Length: 2 Trimesters - 10 Units
Grade Level: 10 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: "C" or better in Algebra I
Description: Chemistry is a lab-oriented, college-preparatory science course intended for students not necessarily planning to major in science in college. Emphasis is on environmental issues, as well as key concepts of chemistry including mole relationships, atomic theory, bonding, reaction kinetics, pH, equilibrium and oxidation and reduction, and organic chemistry.

IB Chemistry SL (P)
A Code: **30165**
B Code: **30166**
C Code: **30167**
Length: 3 trimesters, 15 units
Grade Level: 11 - 12
College: UC/CSU "d" Laboratory Science Requirement (A and B)
Prerequisite: "C" or better in Chemistry and Algebra 1
Description: IB Chemistry SL combines academic study with the acquisition of practical and investigational skills through the experimental approach. Students learn the chemical principles that underpin both the physical environment and biological systems through the study of quantitative chemistry, periodicity, kinetics, thermochemistry, and equilibrium. Throughout the course, students become aware of how scientists work and communicate with each other. Students will have multiple opportunities for scientific study and creative inquiry within a global context via practical lab work, a student-run individual lab, and a collaborative project with IB Biology and Physics students. IB assessment Labs will be evaluated according to the IB assessment standards and students will be required to complete the Group 4 Project as outlined in the syllabus.

AP Chemistry A/B (AP) (P)
A Code: **30170**
B Code: **30180**
Length: 2 Trimesters - 10 Units
Grade Level: 11 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: "C" or better in Chemistry 1A/B and Algebra II A/B
Description: AP Chemistry is a highly lab-oriented course that is the equivalent of a college introductory chemistry course. Topics include structure and states of matter, reactions, stoichiometry, equilibrium, kinetics, thermodynamics and electrochemistry. The course also requires a rigorous schedule of laboratory work and practice with chemical calculations. The course is recommended for students planning to major in science in college.

Seminar for AP Chemistry
Code: **30181**
Length: 1 Trimester - 5 Units
Grade Level: 11 - 12
College: Does not meet UC/CSU requirement
Description: The Chemistry AP Seminar course will provide students with extensive practice for the AP Chemistry exam in May, as well as additional exploration of topics in Chemistry.

AP Environmental Science A/B (AP) (P)
A Code: **30511**
B Code: **30521**
Length: 2 Trimesters - 10 units
Grade Level: 11 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: Algebra I; "C" or better in two prior lab courses, one biological and one physical, recommended
Description: This course will provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Students learn to incorporate academic rigor with practical application by exploring the links between environment, politics and economics. This course is designed to provide students with an academic experience parallel to that of the college-level, while promoting critical thinking skills involved in independent research studies.

Conceptual Physics 1A/B (P)
A Code: **30130**
B Code: **30140**
Length: 2 Trimesters-10 Units
Grade Level: 9-12
College: UC/CSU "d" Laboratory Science Requirement
Description: Conceptual Physics is a college preparatory activity oriented course. In this course, students study similar subjects as in physics (electricity, mechanics, light and energy) without requiring higher level math coursework.

Physics 1A/B (P)
A Code: **30250**
B Code: **30260**
Length: 2 Trimesters - 10 Units
Grade Level: 11 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: Geometry
Description: Physics is a college prep, activity-oriented course dealing with concepts and relationships involving motion, energy, momentum, electricity, magnetism, optics and wave motion. Emphasis is on laboratory investigations and problem solving.

IB Physics SL (P) **Available 2022-23*
A Code: **30287**
B Code: **30288**
C Code: **30289**
Length: 3 trimesters, 15 units
Grade Level: 11 - 12
College: UC/CSU "d" Laboratory Science Requirement (A and B)
Prerequisite: Completion of (or concurrent enrollment in) Precalculus
Description: IB Physics SL is a one-year course covering the concepts and relationships involving mechanics (motion, force, energy, momentum), thermal physics, waves, electricity & magnetism, circular motion & gravitation, atomic & nuclear physics, energy production, and astrophysics. These main principles of physics will be covered in depth and will emphasize problem-solving as well as laboratory skills. IB assessment Labs will be evaluated according to the IB assessment standards and students will be required to complete the Group 4 Project as outlined in the syllabus.

AP Physics C: Mechanics A/B (AP) (P)
A Code: **30265**
B Code: **30266**
Length: 2 Trimesters - 10 Units
Grade Level: 11 - 12
College: UC/CSU "d" Lab Science Requirement
Prerequisite: "C" or better in Physics A/B, completion of or concurrent enrollment in AP Calculus AB or BC
Description: This is a college-level, lab-oriented, calculus-based physics course for students interested in college physical science or engineering majors. This course will provide instruction in each of the following six content areas: kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. This course will also include a hands-on laboratory component comparable to a semester-long introductory college-level physics laboratory.

Social Science & History

The Social Science Program includes courses that are designed to contribute directly to the development of good citizenship and to an understanding of how historical events shape the world of today and the future. These courses include introductory Social Science, World History, U.S. History, Economics, and Civics.

Social Science 9A (P)
Code: **15010**
Length: 1 Trimester - 5 Units
Grade Level: 9
College: UC/CSU "a" Elective Requirement
Description: Social Science 9A is required for all ninth grade students. This survey course provides a foundation for the study of the physical, economic, political and cultural characteristics of areas of the world. This course provides students with opportunities to explore human behavior through the study of the individual, groups and cultures. Reading to understand and making connections between geographic themes are essential components in this course. Students demonstrate their knowledge through written and oral reports, essays, projects and research papers using technology.

Honors Social Science 9A/B (H) (P)
A Code: **15100**
B Code: **15110**
Length: 2 Trimesters - 10 Units
Grade Level: 9
College: UC/CSU "a" Elective Requirement
Prerequisite: "B" or better in 8th grade Social Science course or teacher consent
Description: The Honors Social Science 9A/B course fulfills the 5-unit freshman requirement and provides 5 units of elective credit. This course is designed for the serious student with advanced reading, writing, and critical thinking skills, and is a gateway class to the International Baccalaureate and Advanced Placement pathways. Through a study of physical and cultural geography, students will collect, describe and analyze data, test hypotheses, and learn how to interpret

complex information including original source material. The focus on real-world examples through research and analysis is an essential aspect of this class.

World History 10A/B (P)
A Code: **15030**
B Code: **15040**
Length: 2 Trimesters - 10 Units
Grade Level: 10
College: UC/CSU "a" Social Science Requirement
Description: This course is required for all tenth grade students and follows the California State Content Standards for History/Social Science. Students trace the rise of democratic ideas and the historical roots of current world issues as they pertain to international relations. Emphasis is placed on western civilizations as the source of American political institutions, laws and ideology. Students build timelines, world maps, journals and essays as they research people and events. Activities include oral presentation, collaborative research and historical interpretation, reading literature from and about the period being studied and writing a research paper.

Honors World History 10A/B (H) (P)
A Code: **15120**
B Code: **15130**
Length: 2 Trimesters - 10 Units
Grade Level: 10
College: UC/CSU "a" Social Science Requirement
Prerequisite: "C" or better in previous Social Science course or teacher consent
Description: This Honors World History course is designed for the serious student and focuses on higher-level thinking and writing skills and emphasizes class discussion and daily oral participation. It follows the California State Content Standards for History/Social Science. Honors students trace the rise of democratic ideas and the historical roots of current world issues as they pertain to international relations. Emphasis is placed on western civilizations as the source of American political institutions, laws and ideology. The course provides students with the analytic skills and factual knowledge necessary to deal with the problems and issues in World History. The text and many advanced placement research exercises are supplemented with outside reading. Writing includes a formal research paper and testing in an essay format.

AP European History A/B (AP) (P)
A Code: **15145**
B Code: **15155**
Length: 2 Trimesters - 10 Units
Grade Level: 10 (satisfies the requirements of 10th grade World History)
College: UC/CSU "a" Social Science Requirement
Prerequisite: Passing grade in Social Science 9A/B
Description: Advanced Placement European History introduces students to European history since 1450 emphasizing the cultural, economic, political and social developments that played a fundamental role in shaping the world in which we live. In addition to providing a basic narrative of events and movements, the goals of AP European History are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. Upon completion of the course, students will be expected to take the Advanced Placement European History Exam.

Seminar for AP European History
Code: **15156**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
College: Does NOT meet UC/CSU requirement
Prerequisite: AP European History A/B
Description: The European History AP Seminar course will provide students with extensive practice for the advanced placement exam offered in May, as well as an additional exploration of topics in European history.

U.S. History 11A/B (P)
A Code: **15050**
B Code: **15060**
Length: 2 Trimesters - 10 Units
Grade Level: 11
College: UC/CSU "a" Social Science Requirement
Description: This required course for students in grade eleven follows the California State Content Standards for History/Social Science. Students study the major turning points in American history in the 20th century. Topics include technology and a corporate economy, the change in the ethnic composition of American society, the movement toward equal rights, the role of the United States as a major world power, the expanding role of the federal government and federal court, and the continuing tension between the individual and the state. Students consider the major social problems of our time and trace their causes in historical events. Students experience a wide variety of hands-on and active learning strategies. Writing requirements include a persuasive essay and a research paper.

IB History of the Americas HL1 (P)
A Code: **15175**
B Code: **15176**
Length: 2 trimesters, 10 units
Grade Level: 12
College: UC/CSU "a" Social Science Requirement
Prerequisite: History of the Americas IB HL –Junior Year
Description: IB History HL1 is the second course in a two-year program of advanced history studies. It combines a study of the history of the Americas (United States, Canada, Central and South America as well as the Caribbean) including civics and economics, with a

specific focus on key topics in history. Topics will focus on civil rights, geopolitics, and the principles of global economics while focusing on international perspectives on significant events involving the countries of the Americas. Skill development will be placed on extensive reading, writing, and primary sources. Completion of IB History HL1 and HL2 fulfills graduation requirements for US History and Civics.

IB History of the Americas HL2 (P)
A Code: **15177**
B Code: **15178**
C Code: **15179**
Length: 3 trimesters, 15 units
Grade Level: 11
College: UC/CSU "a" Social Science Requirement
Prerequisite: Completion of World History with a "C" or better, or completion of Honors World History or AP Euro with a "C" or better
Description: History of the Americas IB HL 2 is the first course in a two-year program of advanced history studies. It is a continuation of studies on the history of the US, including civics and economics, with a specific focus on key topics and international perspectives on significant events involving countries of the Americas. Year two requires extensive research and study of 20th century topics through a selection of case studies. Such topics may include the rise of authoritarian states, causes, practices and effects of 20th century wars and the struggle for rights and freedoms in the mid-20th century. Students will be able to evaluate, interpret, and synthesize source materials as historical evidence, as well as demonstrate an understanding of historical cause and effect. Completion of IB History HL1 and HL2 fulfills graduation requirements for US History and Civics.

AP U.S. History 11A/B (AP) (P)
A Code: **15160**
B Code: **15170**
Length: 2 Trimesters - 10 Units
Grade Level: 11
College: UC/CSU "a" Social Science Requirement
Prerequisite: "B" or better in previous Social Science course or teacher consent
Description: The Advanced Placement United States History course is designed to provide students with analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students learn to assess historical materials and their relevance to a given interpretive problem, their reliability, and their importance, and to weigh the evidence and interpretations presented in historical scholarship. This course prepares students for success in the Advanced Placement United States History Exam.

Seminar for AP U.S. History
Code: **15171**
Length: 1 Trimester - 5 Units
Grade Level: 11
College: Does NOT meet UC/CSU requirement
Prerequisite: AP U.S. History 11A/B
Description: The U.S. History AP Seminar course will provide students with extensive practice for the advanced placement exam offered in May, as well as additional exploration of topics in U.S. History.

Civics (P)
Code: **15070**
Length: 1 Trimester - 5 Units
Grade Level: 12
College: UC/CSU "a" Social Science Requirement
Description: This course is required of all seniors and follows the California State Content Standards for History/Social Science. Students in grade twelve pursue a deeper understanding of the institutions of American democracy. They compare systems of government in the world today and analyze the life and changing interpretations of the Constitution, the Bill of Rights and the current state of legislative, executive and judiciary branches of government. An emphasis is placed on analyzing the relationship among federal, state and local governments, with particular attention paid to important historical documents such as *The Federalist*. These standards represent the culmination of civil literacy as students prepare to vote, participate in community activities and assume the responsibilities of citizenship. Reading requirements include newspapers and periodicals related to current civic issues. Writing requirements include a position paper.

Economics (P)
Code: **15080**
Length: 1 Trimester - 5 Units
Grade Level: 12
College: UC/CSU "g" Elective Requirement
Description: Students will master fundamental economic concepts, applying the tools (graphs, statistics, equations) from other subject areas to the understanding of operations and institutions of economic systems. This course is required of all seniors and follows the California State Content Standards for History/Social Science. Students analyze the elements of the United States market economy in a global setting, the influence of the U.S. government on the American economy, and the elements of the United States labor market. Students explore the principles of micro and macroeconomics, international economics, comparative economics systems, measurements and methods. Reading requirements include newspapers and periodicals related to current economic and business activities. The writing requirement includes a creative writing project and presentation.

AP U.S. Government and Politics (AP) (P)
Code: **15090**
Length: 1 Trimester - 5 Units
Grade Level: 12
College: UC/CSU "a" Social Science Requirement
Prerequisite: "B" or better in previous Social Science courses or teacher consent
Description: This Advanced Placement U.S. Government and Politics course will give students an analytical perspective on government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs and ideas that constitute U.S. politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. This course is designed to provide students with an academic experience parallel to that of the college-level. *Note:* Students enrolled in this course do not need to enroll in Civics.

Social Science Electives

IB Theory of Knowledge (P)
A Code: **15490**
B Code: **15491**
Length: 2 trimesters, 10 units
Grade Level: 11- 12 (1 Trimester per year)
College: UC/CSU "g" College-Preparatory Elective
Description: IB Theory of knowledge (TOK) is a course about critical thinking and inquiring into the process of knowing, rather than about learning a specific body of knowledge. TOK provides an opportunity for students to reflect on the nature of knowledge, to make connections between areas of knowledge and to become aware of their own perspectives and those of the various groups whose knowledge they share. TOK asks students to reflect on the nature of knowledge, and on how we know what we claim to know. The overall aim of TOK is to encourage students to formulate answers to the question "how do you know?" in a variety of contexts, and to see the value of that question. This allows students to develop an enduring fascination with the richness of knowledge. TOK is a college-level class that strongly emphasizes critical thinking skills, and students can expect to improve analytical writing and speaking skills as well in preparation for college. Students take TOK A in junior year and TOK B in senior year. Students may choose to submit their senior year TOK presentation and essay assessments to IB for IB credit.

American History through Media, Movies & Music
Code: **15135**
Length: 1 Trimester - 5 Units
Grade Level: 11 - 12
Prerequisite: Completion of or concurrent enrollment in U.S. History 11A/B
Description: This course will investigate American History through the comparison of literature and cinema. Students will read a variety of texts, including historical articles and primary source documents. Students will be exposed to historical events and people not covered in the required American History course. In addition, this course will re-emphasize skills and content in accordance with the History/Social Science State Standards. Areas of interest will include early Colonial and Revolutionary times, the Civil War, the West, the Expansion of our Nation, Native Americans, Late 19th and Early 20th Centuries, Prohibition, the Great Depression, World War II, the '50s and '60s, the Cold War, Communism, Civil Rights, Vietnam and Current Events.

Ethnic Studies: America's Social Change (P)
(Pending Board Approval)


Code: **153901**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
Description: Ethnic Studies: America's Social Change is a one trimester elective course in Social Science that will examine the origins, nature, challenges and achievements of civil rights and social movements in America after 1945. Causes of some of these movements may by pre-1945. These movements represented the attempts to achieve equality for groups that were not recognized or accepted as full members of society, and they challenged established authority and attitudes. Major emphasis will be placed on extensive reading, writing, and primary sources.

Positive Psychology (P)
Code: **15235**
Length: 1 trimesters, 5 units
Grade Level: 9 - 12
College: UC/CSU "g"
Description: This is an introductory course to the field of Positive Psychology. Positive Psychology is the scientific study of human happiness, well-being, and strength of character. The following topics will be covered: defining and measuring happiness; interpreting beliefs; developing healthy self-esteem; mindfulness, focus, and appreciation; learned optimism; intrinsic versus extrinsic motivation; resilience and post -traumatic growth; perfectionism; creativity; setting goals and forming positive habits; and social support structures and healthy relationships. Students will engage in detailed analysis of these concepts and gain an understanding of the research behind the concepts.

IB Psychology SL (P)
A Code: **15300**
B Code: **15301**
C Code: **15302**
Length: 3 trimesters, 15 units
Grade Level: 11 - 12
College: UC/CSU "g" College-Preparatory Elective (A and B)
Description: A systematic study of behavior and experience, the IB Psychology course examines the

historical links of this field with other fields of inquiry. As globalization and the use of technology increase rapidly, we find greater need for insights into how people interpret meanings, approach health and relationships. Through addressing such complex issues, students can develop a greater understanding of themselves and of others. Over the course of study, students will examine the biological, cognitive, socio-cultural, and human relationships and perspectives of psychology culminating in an experimental study. IB psychology takes a holistic approach that fosters intercultural understanding and respect. In the core of the IB psychology course, the biological level of analysis demonstrates what all humans share, whereas the cognitive and sociocultural levels of analysis reveal the immense diversity of influences that produce human behavior and mental processes. Cultural diversity is explored, and students are encouraged to develop empathy for the feelings, needs and lives of others within and outside their own culture. This empathy contributes to an international understanding.

IB Psychology HL1 (P)
A Code: **15303**
B Code: **15304**
Length: 2 trimesters, 10 units
Grade Level: 11
College: UC/CSU "g" College-Preparatory Elective (A and B)
Description: Psychology IB HL1 is part one of a two-year course. A systematic study of behavior and experience, the IB Psychology course examines the historical links of this field with other fields of inquiry. As globalization and the use of technology increase rapidly, we find greater need for insights into how people interpret meanings, and approach health and relationships. Through addressing such complex issues, students can develop a greater understanding of themselves and of others. Over the course of study, students will examine the biological, cognitive, socio-cultural, human relationships and abnormal perspectives of psychology and research methodology, culminating in an experimental study. IB psychology takes a holistic approach that fosters intercultural understanding and respect. In the core of the IB psychology course, the biological level of analysis demonstrates what all humans share; whereas the cognitive and sociocultural levels of analysis reveal the immense diversity of influences that produce human behavior and mental processes. Cultural diversity is explored and students are encouraged to develop empathy for the feelings, needs and lives of others within and outside their own culture. This empathy contributes to an international understanding.

IB Psychology HL2 (P)
A code: **15305**
B code: **15306**
Length: 2 trimesters, 10 units
Grade Level: 12
Prerequisite: completion of Psychology IB HL 1
College: UC/CSU "g" College-Preparatory Elective (A and B)
Description: Psychology IB HL2 is part two of a two-year course. A systematic study of behavior and experience, the IB Psychology course examines the historical links of this field with other fields of inquiry. As globalization and the use of technology increase rapidly, we find greater need for insights into how people interpret meanings, approach health and relationships. Through addressing such complex issues, students can develop a greater understanding of themselves and of others. Over the course of study, students will examine the biological, cognitive, and socio-cultural, human relationships, and abnormal perspectives of psychology and research methodology, culminating in an experimental study. IB psychology takes a holistic approach that fosters intercultural understanding and respect. In the core of the IB psychology course, the biological level of analysis demonstrates what all humans share, whereas the cognitive and sociocultural levels of analysis reveal the immense diversity of influences that produce human behavior and mental processes. Cultural diversity is explored and students are encouraged to develop empathy for the feelings, needs and lives of others within and outside their own culture. This empathy contributes to an international understanding.

Sports Psychology (P)
Code: **15251**
Length: 1 Trimester - 5 Units
Grade Level: 10 - 12
College: Pending UC/CSU "g" Elective Approval
Prerequisite: English 9 A/B and "B" or better in Health Education
Description: This course examines the key psychological aspects of athletic success, which influence and are influenced by participation and performance in sport, exercise, and physical activity, as well as the application of these concepts to everyday settings. This class introduces students to the field of sport and exercise psychology by providing a broad overview of the major topics in the field, and explores various psychological theories and research related to sport and exercise. This course will guide students and student athletes in creating a balance of academics, family and sports, as well as in building a strong knowledge base for further study in college and career focus in the field of Sports Psychology.

Sports in Society
Code: **15253**
Length: 1 Trimester - 5 Units
Grade Level: 11 - 12
Prerequisite: Completion of or concurrent enrollment in U.S. History 11A/B
Description: This class will provide students with the

opportunity to study the realm of sports and the history of sports and their place in society, so that students will gain an understanding of the impact and the cultural and social value of sports. Students will study sports in the social and historical context of different eras, populations and geographic regions, relative to development, participation and spectatorship. Students will analyze the creation and evolution of American sports such as football, baseball and basketball, as well as modern Olympic events and other sports from around the world. Students will explore current social and cultural issues surrounding sports today: drug use, violence on and off the field, money and professionalism, and the role of the media.

Women in American History (P)
Code: **15400**
Grade Level: 10 - 12
Length: 1 Trimester – 5 units
College: UC/CSU "a" Elective Requirement
Prerequisite: Priority enrollment will be given to students in grade 11 or 12 who have completed or are concurrently enrolled in U.S. History 11A/B
Course Description: This class will explore the unique experiences of women throughout U.S. History. These experiences are rooted in race and socioeconomic status. Students will analyze past historical movements and focus on how women of all races have contributed to our history by exploring themes such as immigration and civil rights. We will explore how women have been strong activists to bring about social, economic and political change. If you enjoy history and are interested in women's challenges and contributions, this is the class for you.

Special Education

Eligibility for Special Education is determined according to federal guidelines outlined by the Individuals with Disabilities Education Improvement Act (IDEA). Special Education programs require an Individual Education Plan (IEP) as defined by IDEA. Special Education classes address specific goals and objectives identified on the student's IEP. Courses for students enrolled in the Special Education program are identified by the student's case manager.

Visual and Performing Arts

The California State Framework for the Visual and Performing Arts identifies that each of the arts contains a distinct body of knowledge and skills that characterize the power of each to expand the perceptual, intellectual, cultural and spiritual dimensions of human experience. This capacity of human beings to create and appreciate the arts is one of many reasons to teach the arts in schools. Study and practice in the arts refines a student's abilities to perceive aesthetically, to make connections between works of art and the lives of people, and to discuss visual, kinesthetic and auditory relationships. Students learn to locate works of art in time and place, make reasoned judgments about them, and investigate how artworks create meaning. The UC/CSU system requires a one-year (two-trimester) course of study of one visual or performing art. When learning a new VPA skill such as photo, video, ceramics, drawing, or music, students may benefit from taking level 1 and 2 courses in the same year; however they may take them during different years.

Visual Arts

Art 1 (P)
Code: **60030**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Art 2
Description: This is a studio art class that when taken in conjunction with Art 2, meets the UC/CSU VPA requirement. The emphasis of this course is on drawing and painting. The course will explore the basic Elements of Art. Many drawing and painting techniques will be introduced to the students, and they will have the opportunity to work in a variety of mediums including some 3-dimensional projects. Students will also gain the ability to analyze and respond to various works, including their own. Students will keep work in a processing journal.

Art 2 (P)
Code: **60040**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Art 1
Prerequisite: Art 1
Description: This course is a continuation of Art 1 with a focus on the Principles of Design. Students will be introduced to numerous cultural and historical styles.

Through critiques, both written and oral, students will develop the ability to aesthetically value and appreciate works of art, as well as understand the relationship between art, culture and history. Students will keep a processing journal continued from Art 1.

Advanced Art 3 (P)
Code: **60043**
Length: 1 Trimester - 5 units (may be repeated for credit)
Grade level: 10 - 12
College: UC/CSU "g" VPA Requirement
Prerequisite: "C" or better in Art 1 and Art 2; portfolio review
Description: This is an advanced art class, intended for the art student who desires more emphasis on individual skill development. The course will enhance the student's knowledge of art through application of the State Visual Arts Standards and includes both visual and written assignments. It is designed to accommodate the highly motivated advanced art student. Students are encouraged to explore and develop proficiency in a range of mediums including drawing, painting, and collage, and may include printmaking, digital media or 3-dimensional work. Emphasis will be on building a portfolio of finished work and formulating goals for careers in art.

Animation 1 (Traditional Animation) (P)
Code: **60170**
Length: 1 Trimester - 5 units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Animation 2
Description: This project-based course in animation and stop-motion Claymation will begin with an introduction/review of the elements and principles of art needed for Animation/Claymation, such as basic layout and design, color theory, texture, shape, form and composition. Students will learn through theory and hands-on practice, the foundations of cartooning, hand-drawn animation, stop-motion animation and a historical perspective of motion pictures including animation.

Animation 2 (Computer-Based Animation) (P)
Code: **60175**
Length: 1 Trimester - 5 units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Animation 1
Description: This project-based course in 2D and 3D computer-based animation will begin with an introduction/review of the principles of animation, such as basic layout and design, color theory, texture, shape, form and composition. Students will learn, through theory and hands-on practice, techniques in non-linear animation using a computer, and a historical perspective of motion pictures including 2D and 3D computer-based animation. Students will gain an understanding of animated short films using advanced software, drawing tablets, sound recording techniques and editing tools.
Note: May be taken before Animation 1

Ceramics 1 (P)
Code: **60130**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Ceramics 2
Description: Students will be introduced to the basic fundamentals of ceramics, including hand building, sculpture, and design. Students will acquire the basic understanding of glazes, application, and kiln firing. The students will learn the elements of art as applied to ceramic works. This knowledge will allow them to analyze and evaluate their work. They will also be able to articulate discussions in regards to their designs and the works of other artists. This course will explore early ceramic culture and history.

Ceramics 2 (P)
Code: **60140**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Ceramics 1
Prerequisite: Ceramics 1
Description: In this continuation of Ceramics 1, students will learn the principles of design and how they apply to ceramic works. Students will be challenged in the development of creative thought. Students will explore more complex design skills. We will learn creative problem solving and how that can enhance our ceramic success. Students will be introduced to the potter's wheel, and taught the basics for them to practice. Students will continue to explore critique analysis with to their creations as well as work of their peers. The course will explore ceramic artists.

Advanced Ceramics 3 (P)
Code: **60141**
Length: 1 Trimester - 5 Units (may be repeated for credit)
Grade level: 10 - 12
College: UC/CSU "g" VPA requirement
Prerequisite: "C" or better in Ceramics 1 and 2
Description: This course is intended for the art student who desires more emphasis on individual skill development. An essential part of the course will be challenging students and their creative thought process. Students are encouraged to explore and develop proficiency in wheel throwing, hand building and complex decorating. This course continues to explore historical, cultural and contemporary pottery and sculpture. Students will further develop their ability to critique other artists' work as well as their own.

Digital Photography 1 (P)
Code: **60270**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Digital Photo 2
Description: This rigorous course in digital photography will begin with an introduction/review of the elements and principles of art needed for creating photographs, including basic layout and design, color theory, shape, form and composition. This course will familiarize the student with digital photographic equipment, materials and methods through theory and hands-on practice. Students will use software to manipulate photographs in creative manners not possible with traditional photography. Students will also learn about the history of photography and photographers.

Digital Photography 2 (P)
Code: **60275**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Digital Photo 1
Prerequisite: Digital Photo 1
Description: The continuation of Digital Photography 1, this course will familiarize the student with digital photographic equipment, materials and methods through theory and hands-on practice. Students will continue to study the elements and principles of design through more advanced practice. Students will use software to manipulate photographs in creative manners not possible with traditional photography. Students will also learn about the history of photography and photographers by studying and emulating a variety of photographic styles. Students will learn and utilize traditional photography techniques and experimental styles in the creation of several projects.

Digital Photography 3 (P)
Code: **60276**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "g" Elective Requirement
Prerequisite: "C" or better Digital Photography 1 and 2 or teacher consent. Approval based on portfolio and/or previous experience.
Description: This course is a continuation of Digital Photography 1 and 2 and is intended for the student who desires more emphasis on individual skill development. Students will have the opportunity to learn advanced techniques using Photoshop to solve problems that reinforce the principles and elements of design and enhance their knowledge of technology. Students will gain experience in setting up different lighting situations and will be encouraged to experiment with composition. Students will be expected to participate in a rigorous self-evaluation process, as well as contribute informed opinions in group critiques.
Note: This course is not a prerequisite for AP Digital Photography.

Video Production 1 (P)
Code: **60200**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Video Production 2
Description: This course is offered to students who are interested in creating quality artwork using video and audio. Students will learn about the elements and principles of art/design in how they relate to video and audio. Throughout the trimester, students will also analyze work, present their work to peers, collaborate with students, and research influential individuals in the world of video productions.

Video Production 2 (P)
Code: **60205**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Video Production 1
Prerequisite: Video Production 1 or teacher consent
Description: This course allows students to continue to build their pre-production, production, and post-production skills by working on a variety of activities. Students will dive deeper into reading and writing screenplays, building shot lists, and creating storyboards. Students will record footage using higher level cameras and lenses. Students will experience different rolls on a film set. Students will improve their editing skills while creating a documentary, a silent or interpretive film, a scene recreation, and a commercial. Students will explore audio through SoundFX and Foley work. Students will analyze and discuss media related to class activities.

Video Production 3
A Code (Fall): **60206**
B Code (Winter): **60216**
C Code (Spring): **60226**
Length: 1 Trimester - 5 Units (may be repeated for credit)
Grade level: 9 - 12
Prerequisite: VP 1 and 2 or teacher consent
Description: This course focuses on independent filmmaking, including the roles of the writer, cinematographer, director, and producer. Students experience the creative, organizational, and technical aspects of filmmaking. Each unit introduces new concepts and skills, which transition into the next. Students learn and apply each concept or skill in the production of their independent film projects. Each unit is embedded with multiple written components based on the needs of the project. These include but are not limited to treatments, screenplays, release forms, contracts, production logs and schedules, critiques, and self-reflections.

Studio Broadcast Productions 1 (P)
Code: **60199**
Length: 1 Trimester - 5 units
Grade level: 9 - 12
College: UC/CSU "g" Elective Requirement
Description: Students in this course will train to create the weekly Video El Aviso. This course is designed to teach the fundamentals of reporting, shooting and lighting, scripting, editing and production of a television/web-delivered newscast. Students will learn how to use cameras, tripods, lights, microphones, editing equipment, and to build/design sets and backdrops. Working in small teams, students will develop the skills necessary to produce daily/weekly broadcasts.

Studio Broadcast Productions 2 (P)
A Code (Fall): **60207**
B Code (Winter): **60208**
C Code (Spring): **60209**
Length: 1 trimester - 5 units (may be repeated for credit)
Grade level: 9 - 12
College: UC/CSU "g" Elective Requirement
Prerequisite: "C" or better in Studio Broadcast Productions 1 or teacher consent
Description: Students in this course will create the weekly Video El Aviso. This course builds on the foundation learned in Studio Broadcast Productions 1. Students will learn advanced skills in reporting, shooting and lighting, scripting, editing and production of a television/web-delivered newscast. Students will produce daily/weekly newscasts that air at school and online. Working in small teams, students will develop the skills necessary to produce daily/weekly broadcasts and will direct many of their own creative projects.

AP Studio Art (AP) (P)
Codes:

Drawing A	**60180**
Drawing B	**60185**
Digital Photo A	**60286**
Digital Photo B	**60287**
3-D Ceramics A	**60165**
3-D Ceramics B	**60166**

Length: 2 Trimesters - 10 Units
Grade level: 11 - 12
College: UC/CSU "f" VPA Requirement
Prerequisite: "C" or better in at least two trimesters of Visual Arts (Drawing, Digital Photography or Ceramics); portfolio review
Description: Designed for highly motivated students who are seriously interested in the study of art, this course gives students the opportunity to pursue quality in both production and experience of art. Major areas that are constants in the teaching of art are addressed: a sense of quality in the student's work; the student's concentration on particular visual interest or problem; and the student's need for breadth of experience in the formal, technical and expressive means of the artist. Artwork will reflect these three areas of concern: quality and sustained investigation. Group and individual critiques will enable students to learn to analyze their own work and the work of others, assessing both strengths and weaknesses. At the end of the year, students will be expected to submit an AP Studio Art Portfolio of 15 art works that best exhibit a synthesis of form, technique and content, while demonstrating a depth of investigation, process of discovery, a serious grounding in visual principles and material techniques. AP Studio Art provides an academic experience parallel to that of the college-level.

IB Visual Arts SL (P)
A Code: **60055**
B Code: **60056**
C Code: **60057**
Length: 3 trimesters, 15 units
Grade Level: 11-12
College: UC/CSU "f" Visual and Performing Arts Requirement
Prerequisite: Ceramics 1, Digital Photo 1 or Art 1
Description: The Group 6 Visual Arts High Level (SL) course is designed teach about a variety of different mediums, how to analyze and communicate about art and how to express thematic ideas through exhibitions employing 2 different mediums (painting or drawing, 3-D sculpture and electronic media). Students will maintain a portfolio to demonstrate their knowledge, process and visual experimentation. Regular research and studio work will provide the link between artists representing various visual mediums and the student's theme and personal artistic development of expression. Students will gain experience both inside and outside of the classroom, viewing and critique other artists' work and creating their own works. Students will be expected to participate in a reflective self-evaluation process.

IB Visual Arts HL 1 (P)
A Code: **60061**
B Code: **60062**
Length: 2 trimesters, 10 units
Grade Level: 11
College: UC/CSU "f" Visual and Performing Arts Requirement
Prerequisite: "C" or better in 1 visual arts elective (art or ceramics); or portfolio review and approval by instructor.
Description: Visual Arts IB HL 1 is part one of a two-year course. The Group 6 Visual Arts High Level (HL) course is designed teach about a variety of different mediums, how to analyze and communicate about art, and how to express thematic ideas through exhibitions employing 3 different mediums (painting or drawing, 3-D sculpture and electronic media). Students will maintain a portfolio to demonstrate their knowledge, process and visual experimentation. Regular research

and studio work will provide the link between artists representing various visual mediums and the student's theme and personal artistic development of expression. Students will gain experience both inside and outside of the classroom, viewing and critique other artists' work and creating their own works. Students will be expected to participate in a reflective self-evaluation process.

IB Visual Arts HL 2 (P)
A Code: **60065**
B Code: **60066**
Length: 2 trimesters, 10 units
Grade Level: 12
College: UC/CSU "f" Visual and Performing Arts Requirement
Prerequisite: "C" or better in Visual Arts IB HL 1
Description: Visual Arts IB HL 2 is part two of a two-year course. The Group 6 Visual Arts High Level (HL) course is designed teach about a variety of different mediums, how to analyze and communicate about art, and how to express thematic ideas through exhibitions employing 3 different mediums (painting or drawing, 3-D sculpture and electronic media). Students will maintain a portfolio to demonstrate their knowledge, process and visual experimentation. Regular research and studio work will provide the link between artists representing various visual mediums and the student's theme and personal artistic development of expression. Students will gain experience both inside and outside of the classroom, viewing and critique other artists' work and creating their own works. Students will be expected to participate in a reflective self-evaluation process.

Performing Arts

Symphonic Band (P)
A Code (Fall): **87031**
B Code (Winter): **87032**
C Code (Spring): **87041**
Length: 2 - 3 Trimesters - 5 Units Each; year-long enrollment recommended
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement
Prerequisite: Advanced reading/playing ability or at least two years experience or teacher consent
Description: This is a performance-based music course emphasizing symphonic and marching band techniques and literature. This course includes work in individual instrumental technique, music reading, theory and fundamentals, all done in a large ensemble setting. There are also opportunities for small ensemble and solo performances. Students will be required to participate in concerts, music festivals and various marching band activities, including school events and competitive band reviews. Field trips and tours to various concert and marching events are included in this activity.
Note: Year-long enrollment is strongly recommended.

Orchestra (P)
A Code (Fall): **70330**
B Code (Winter): **70331**
C Code (Spring): **70332**
Length: 2 - 3 Trimesters - 5 Units Each; year-long enrollment recommended
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement
Prerequisite: At least two years experience on violin, viola, cello, string bass or teacher consent. This course is designed for orchestral string players only.
Description: This is a performance-based music class emphasizing orchestral technique and literature. The course includes work in individual instrumental technique, music reading, theory and fundamentals, all done in a large ensemble setting. There are also opportunities for small ensemble and solo performances. Students will be required to participate in concerts, music festivals and various field trips/tours.
Note: Year-long enrollment is strongly recommended.

Jazz Ensemble (P)
A Code: **70130**
B Code: **70131**
C Code: **70132**
Length: Year-long - 10 units (each half of the course meets for 18 weeks, outside of school day)
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement
Prerequisite: At least two years playing experience on instruments used in the traditional Big Band and concurrent enrollment in Symphonic Band or Orchestra or teacher consent.
Description: Jazz Ensemble is a performance-based music elective course emphasizing jazz styles, techniques and the performance of jazz literature. The course also explores jazz listening and improvisational skills. Jazz Ensemble uses traditional Jazz Big Band instrumentation; however, small group and/or combo performance opportunities may be included. Students will be required to participate in concert performances, jazz festivals and various field trips and tours.

IB Music Group Performance SL
A Code: **70385**
B Code: **70386**
C Code: **70387**
Length: 3 Trimesters - 15 units
Grade Level: 11 - 12
Prerequisite: Advanced reading/playing ability or at least three years experience or teacher consent.
Course Description: The IB Diploma Programme Standard Level (SL) Group Performance Music course seeks to develop students' knowledge and potential as musicians personally and collaboratively. IB Diploma Programme music students study musical perception and actively listen to a wide range of music cultures across various time periods. Students develop their

understanding of musical elements, including form and structure, notations, musical terminology and context, as well as aural skills. Through the course of study, students become aware of how musicians work and communicate. In addition, the course enables students to develop perceptual and analytical skills and develop their knowledge and technique as musicians. IB Music Group Performance SL will be run within the Symphony Band, Orchestra and/or Choir and Jazz Band sections as a blended course, giving students options in which to pursue the IB Music course.

Pageantry (Color Guard)
Code: **81050**
Length: 1 Trimester - 5 Units (only offered Trimester 1)
Grade level: 9 - 12
Prerequisite: Students will be required to participate in a tryout/audition. Students MUST have teacher consent to enroll.
Description: This course is directly connected to the music program. Pageantry incorporates elements of dance and movement and the use of tall flags, show rifles and ID boards in a "Show Color Guard" format. From August - November, the team performs as an auxiliary to the marching band at school and public performances. From November - April, the team is involved with Winter Guard activities which include indoor performances choreographed to pre-recorded music.

Concert Choir (P)
A Code (Fall): **70010**
B Code (Winter): **70020**
C Code (Spring): **70025**
Length: 1 - 3 Trimesters - 5 Units Each (may be repeated for credit)
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when Concert Choir 1 and 2 are taken
Description: (Large Ensemble) The Concert Choir is designed for students to learn to increase their vocal skills, and to explore and study choral music. The students receive instruction in vocal development and technique, music reading and music theory. A wide variety of choral literature and music styles are presented. The students learn stylistic interpretation, performance practice, critical analysis and observation techniques, and leadership skills. The students learn how to work as a cohesive unit while contributing individual talent to the group. Members of the class are introduced to solo, ensemble and independent singing. The students are involved in choir tours to exchange music with other high schools and attend clinics and music festivals. This choir performs in at least two major concerts per trimester, which are mandatory.
Note: Students may choose to take Concert Choir for 1, 2 or 3 trimesters. Year long enrollment is recommended.

Writing for Stage and Screen
Code: **70403**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
Prerequisite: Video Production 1 or Drama 1 or Instructor consent
Description: This course focuses on the art of writing scripts for both the movie industry and for the theatrical stage. Students will first learn basic formatting of scripts and the differences between scripts for filming and scripts for performing and what information each script needs. Then, utilizing a two tiered approach, students will begin the writing, feedback, and revision process for scripts in both disciplines. The class will culminate with each student choosing a script they have previously written in the class and developing it into a full one-act play or short film which will then be stored for possible performing/filming in future advanced classes.

Theater Arts 1 (Drama 1) (P)
Code: **70410**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Theater Arts 2 (Drama 2).
Description: Students will learn basics of dramatic performance and literature, and are provided exposure to technical theater and theater history. Students will learn the foundations of performance: pantomime, improvisation, voice, diction, movement and technical theater.

Theater Arts 2 (Drama 2) (P)
Code: **70420**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement when taken with Drama 1
Prerequisite: Theater Arts 1 (Drama 1)
Description: The second part of the drama sequence will build on what students began in Theater Arts 1. In addition, students will complete a variety of performance pieces and written assignments that will demonstrate practical and critical thinking skills and meet performance criteria.

Advanced Theater Workshop (P)
A Code (Fall): **70450**
B Code (Winter): **70460**
C Code (Spring): **70470**
Length: 1 Trimester - 5 Units Each
Grade level: 9 - 12
College: UC/CSU "f" VPA Requirement
Prerequisite: Drama 1 and 2
Description: Students apply processes and skills in acting, designing and producing formal theatre productions. Students undergo the entire rehearsal/ production process as either a performer or technical support member. Student actors will make acting choices using script analysis, character research,

reflection and revision to create characterizations effectively portraying their role(s) in the play. Student technical staff will design all technical elements, i.e., sets, props, costumes, hair and make-up, lighting and sound effects, and provide technical support during performances. Students complete a specified portfolio process to document their entire formal production experience.

IB Theatre Arts SL (P)
A Code: **70475**
B Code: **70476**
C Code: **70477**
Length: 3 trimesters, 15 units
Grade Level: 11 or 12
College: UC/CSU "f" Visual and Performing Arts Requirement (A and B)
Description: Theatre Arts IB Standard Level offers students both individual and collaborative experiences and engagement in a variety of theatre activities, practices and tradition. Students will engage in all aspects of creating theatre, including set and costume design, lighting, casting, script writing, scene blocking, and performance. IB Theatre emphasizes student participation as creators of theatre, not merely participants in theatre. Students will gain knowledge of theatrical traditions from other cultures and theatrical genres and apply research to develop their performance pieces. Student activities will engage them in analytical and imaginative interpretation of performance, ask them to reflect on personal growth, and demonstrate initiative and perseverance in individual and group projects.

IB Theatre Arts HL 1 (P)
A Code: **70481**
B Code: **70482**
Length: 2 trimesters, 10 units
Grade Level: 11
College: UC/CSU "f" Visual and Performing Arts Requirement
Prerequisite: Academic junior standing, successful completion of sophomore English
Description: Theatre Arts IB HL1 is part one of a two-year course. It offers students both individual and collaborative experiences and engagement in a variety of theatre activities, practices and tradition. Students will engage in all aspects of creating theatre, including set and costume design, lighting, casting, script writing, scene blocking, and performance. IB Theatre emphasizes student participation as creators of theatre, not merely participants in theatre. Students will gain knowledge of theatrical traditions from other cultures and theatrical genres and apply research to develop their performance pieces. Student activities will engage them in analytical and imaginative interpretation of performance, ask them to reflect on personal growth, and demonstrate initiative and perseverance in individual and group projects.

IB Theatre Arts HL 2 (P)
A Code: **70485**
B Code: **70486**
Length: 2 trimesters, 10 units
Grade Level: 12
College: UC/CSU "f" Visual and Performing Arts Requirement
Prerequisite: "C" or better in Theatre Arts IB HL 1
Description: Theatre Arts IB HL2 is part two of a two-year course. It offers students both individual and collaborative experiences and engagement in a variety of theatre activities, practices and tradition. Students will engage in all aspects of creating theatre, including set and costume design, lighting, casting, script writing, scene blocking, and performance. IB Theatre emphasizes student participation as creators of theatre, not merely participants in theatre. Students will gain knowledge of theatrical traditions from other cultures and theatrical genres and apply research to develop their performance pieces. Student activities will engage them in analytical and imaginative interpretation of performance, ask them to reflect on personal growth, and demonstrate initiative and perseverance in individual and group projects.

IB Dance SL A/B/C (P)
A Code: **23050**
B Code: **23051**
C Code: **23052**
Length: 3 trimesters, 15 units
Grade Level: 11-12
College: UC/CSU "f" VPA requirement (pending)
Description: IB Dance SL is a comprehensive college-level dance course. IB Dance SL students should have a strong interest in studying, creating and performing dance. The IB Diploma Programme dance course curriculum aims for a holistic approach to dance, and embraces a variety of dance traditions and dance cultures—past, present and looking towards the future. Students will be expected to choreograph, perform, and critique dance, and performance, creative and analytical skills are mutually developed and valued whether the students are writing papers or creating/performing dances. This course facilitates the development of students who may become choreographers, dance scholars, performers or those, more broadly, who seek life enrichment through dance. In order to complete the IB Dance SL course, students will be required to choreograph their own dances and offer analysis of the composition process. Students will also be required to explore, compare and contrast dances from different cultures and/or traditions. Students may opt to submit their IB Dance SL assessments to IB to potentially earn college credit.

IB Dance HL 1 A/B (P)
A Code: **23060**
B Code: **23061**
Length: 2 trimesters, 10 units
Grade Level: 11
College: UC/CSU "f" VPA requirement, UC Honors credit
Description: IB Dance HL 1 is year one of a two-year comprehensive college-level dance course that covers a similar curriculum to IB Dance SL but in more depth. IB Dance HL students should have a strong interest in studying, creating and performing dance. The IB Diploma Programme dance course curriculum aims for a holistic approach to dance, and embraces a variety of dance traditions and dance cultures—past, present and looking towards the future. Students will be expected to choreograph, perform, and critique dance, and performance, creative and analytical skills are mutually developed and valued whether the students are writing papers or creating/performing dances. This course facilitates the development of students who may become choreographers, dance scholars, performers or those, more broadly, who seek life enrichment through dance. In order to complete the IB Dance HL course, students will be required to choreograph their own dances and offer analysis of the composition process. Students will also be required to explore, compare and contrast dances from different cultures and/or traditions. Students may opt to submit their IB Dance HL assessments to IB to potentially earn college credit.

IB Dance HL 2 A/B (P)
A Code: **23070**
B Code: **23071**
Length: 2 trimesters, 10 units
Grade Level: 12
College: UC/CSU "f" VPA requirement, UC Honors credit
Prerequisite: Successful completion of IB Dance HL1
Description: IB Dance HL 2 is year two of a two-year comprehensive college-level dance course that covers a similar curriculum to IB Dance SL but in more depth. IB Dance HL students should have a strong interest in studying, creating and performing dance. The IB Diploma Programme dance course curriculum aims for a holistic approach to dance, and embraces a variety of dance traditions and dance cultures—past, present and looking towards the future. Students will be expected to choreograph, perform, and critique dance, and performance, creative and analytical skills are mutually developed and valued whether the students are writing papers or creating/performing dances. This course facilitates the development of students who may become choreographers, dance scholars, performers or those, more broadly, who seek life enrichment through dance. In order to complete the IB Dance HL course, students will be required to choreograph their own dances and offer analysis of the composition process. Students will also be required to explore, compare and contrast dances from different cultures and/or traditions. Students may opt to submit their IB Dance HL assessments to IB to potentially earn college credit.

World Language

The goal in each language class is to develop cultural understanding and fluency in the target language. Daily classroom activities require students to demonstrate understanding in listening, speaking, reading and writing. As students study the culture, they apply their language skills in practical, real-life situations, internet projects and exchange programs. Increasingly complex activities engage the students, extend their language acquisition and use, and allow them to progress through various levels of language. Homework is an integral part of the World Language Program. The use of technology is expected in each class. All students are required to take an exit proficiency exam at the end of each level. Students who complete two or more years of middle school language with a "C" or better should enroll in level 2 of that language. Each level has an "A" and "B" course. (A must be taken before B.) The University of California and California State University systems require a minimum of two years of the same foreign language. Both UC and CSU recommend three years of a foreign language.

Note: A student completing 4 years of the same language while maintaining a 3.0 GPA may be eligible for a California Seal of Biliteracy at graduation.

American Sign Language

American Sign Language 1A/B (P)
A Code: **40550**
B Code: **40560**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Prerequisite: English or teacher consent
Description: This course covers the beginning fundamental principles of American Sign Language (ASL) and introduces basic information about the Deaf community and the Deaf culture. The ASL course includes receptive skills (seeing and understanding) and expressive skills (signing), as well as basic conversation skills, emphasizing vocabulary and correct use of signs. Students will learn the diverse cultural heritage of our world and its people. *Note: Due to enrollment and section availability, there may not be room for freshmen in ASL 1. Students will then have priority for enrollment as sophomores.*

American Sign Language 2A/B (P)
A Code: **40570**
B Code: **40580**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Prerequisite: American Sign Language 1 or teacher consent
Description: American Sign Language 2 continues communication skills in intermediate ASL, with more emphasis on conversational communications. Instruction includes exploration and preparation for the use of ASL in careers.

American Sign Language 3A/B (P)
A Code: **40585**
B Code: **40590**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Prerequisite: American Sign Language 2 or teacher consent
Description: American Sign Language 3 continues communication skills learned in previous ASL courses, with more emphasis on conversational and interpretive communications. Instruction includes exploration and preparation for the use of ASL in careers.

Chinese

Chinese (Mandarin) 1
(*Pending Board Approval)*
A Code: **40650**
B Code: **40651**
Length: 2 trimesters, 10 units
Grade Level: 9 - 12
College: UC/CSU "e" Language Other than English Requirement (A and B)
Prerequisite: English or teacher consent
Description: Mandarin Chinese 1 is a beginning-level, integrated course which focuses on daily conversational and written Chinese language development, meeting the World Language Content Standards for California Public Schools-Content, Communication, Cultures, Structures and Settings. The course will also incorporate and introduce Chinese culture to expose students to a cross-cultural understanding of Chinese. The content will cover basic simplified characters, different tones, functional vocabulary and elementary grammar and sentence structure. It is designed to develop four language skills in listening, speaking, reading and writing and building up students' vocabulary and knowledge of Chinese culture. In addition to the text, students will use ancillary materials including (but not limited to) video files, audio tapes, calligraphy worksheets, pinyin exercises and Chinese language workbooks. Through written and verbal practice, students will gain knowledge about Chinese language and culture.

French

French 1A/B (P)
A Code: **40010**
B Code: **40020**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Prerequisite: English or teacher consent
Description: French 1 introduces fundamental and idiomatic grammar constructions. The student will develop communication skills in French through listening, speaking, reading and writing. French culture is introduced.

French 2A/B (P)
A Code: **40030**
B Code: **40040**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Prerequisite: French 1 or teacher consent
Description: French 2 introduces more complex grammatical concepts with emphasis on oral communication, reading comprehension and writing. Classes will be increasingly conducted in French.

French 3A/B (P)
A Code: **40050**
B Code: **40060**
Length: 2 Trimesters - 10 Units
Grade level: 9-12
College: UC/CSU "e" Language other than English Requirement
Prerequisite: French 2 or teacher consent
Description: French 3A/B will study more complex concepts with emphasis on oral communication, reading comprehension and writing. Classes will be conducted mostly in French. Students expand vocabulary and refine structures. Activities include conversations, authentic readings, advanced listening selections and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the French language.

IB French SL (P)
A Code: **40081**
B Code: **40082**
C Code: **40083**
Length: 3 trimesters, 15 units

Grade Level: 11 - 12
College: UC/CSU "e" Language Other than English Requirement (A and B)
Prerequisite: "C" or better in French 3
Description: IB French Standard Level focuses on language acquisition, development of language skills and intercultural understanding through the study and use of a range of written and spoken material. This course emphasizes advanced communication in all areas of the language through debates, discussions, skits, essays, blogs, letters, emails, and authentic texts and situations. Such material extending from everyday oral exchanges to literary texts are related to the Francophone culture. Core topics address communication and media, global issues, social relationships while optional topics cover cultural diversity, customs and traditions, health, leisure, science and technology. This program develops productive, interactive, and receptive written and oral skills. Emphasis is on fostering reflection on cultural values and behaviors. Immersion instruction and participation in French is required. Students are expected to think critically and communicate effectively in all language modes based on native/ authentic situations and resources. They will engage their creativity and embrace a global perspective via analysis of political and social issues.

IB French HL1 (P)
A Code: **40085**
B Code: **40086**
Length: 2 trimesters, 10 units
Grade Level: 11
College: UC/CSU "e" Language Other than English Requirement
Prerequisite: "C" or better in French 3
Description: French IB HL1 is part one of a two-year program of advanced French studies. The focus of this class is language acquisition and intercultural understanding via the extensive study of global issues, communications and media along with social relationships. It also incorporates analysis of literary works. The class is conducted entirely in French and requires the student to be an independent and highly motivated learner. Students will hone their productive, interactive, and receptive skills through the study and use of an extensive array of authentic written and spoken material ranging from oral exchanges to literary texts. This class is geared for students seeking a major or minor in college.

IB French HL2 (P)
A Code: **40088**
B Code: **40089**
Length: 2 trimesters, 10 units
Grade Level: 12
College: UC/CSU "e" Language Other than English Requirement (A and B)
Prerequisite: "C" or better in French IB HL1
Description: French IB HL2 is the second part of a two-year program of advanced French studies. The focus of this class is language acquisition and intercultural understanding via the extensive study of global issues, communications and media along with social relationships. It also incorporates analysis of literary works. The class is conducted entirely in French and requires the student to be an independent and highly motivated learner. Students will hone their productive, interactive, and receptive skills through the study and use of an extensive array of authentic written and spoken material ranging from oral exchanges to literary texts. This class is geared for students seeking a major or minor in college.

World Language Content Standards for California Public Schools-Content, Communication, Cultures, Structures and Settings. The course will also incorporate and introduce Chinese culture to expose students to a cross-cultural understanding of Chinese. The content will cover basic simplified characters, different tones, functional vocabulary and elementary grammar and sentence structure. It is designed to develop four language skills in listening, speaking, reading and writing and building up students' vocabulary and knowledge of Chinese culture. In addition to the text, students will use ancillary materials including (but not limited to) video files, audio tapes, calligraphy worksheets, pinyin exercises and Chinese language workbooks. Through written and verbal practice, students will gain knowledge about Chinese language and culture.

Spanish

Spanish 1A/B (P)
A Code: **40210**
B Code: **40220**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Prerequisite: English or teacher consent
Description: Spanish Level 1 introduces fundamentals of the Spanish language receptive skills of listening and reading comprehension, and the productive skills of speaking and writing. Students will advance from beginner to novice, using three modes of communications: interpersonal, analytical, and presentational. They will learn about various Hispanic cultures and will compare and contrast the language and culture with their own.

Spanish 2A/B (P)
A Code: **40230**
B Code: **40240**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Prerequisite: Spanish 1 or teacher consent
Description: Spanish Level 2 expands the first year knowledge of the Spanish language receptive skills of listening and reading comprehension, and the productive skills of speaking and writing, with increasingly complex concepts in language. Students will advance from novice to intermediate, emphasizing the three modes of communication: interpersonal, analytical, and presentational. They will continue to compare and contrast Hispanic culture and language with their own.

Spanish 3A/B (P)
A Code: **40250**
B Code: **40260**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Prerequisite: Spanish 2 or teacher consent
Description: Spanish 3 introduces more advanced concepts with stress on communicative activities, reading comprehension and writing. This course is conducted mostly in Spanish.

Spanish 4A/B (P)
A Code: **40265**
B Code: **40266**
Length: 2 Trimesters - 10 Units
Grade Level: 9 - 12
College: UC/CSU "e" Language other than English Requirement Approval
Prerequisite: Spanish 3 or teacher consent
Description: In this course, students expand vocabulary and refine structures. Activities include conversations, authentic readings, advanced listening selections and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the Spanish language. The study of a world language prepares students to compete in a global community! Upon successful completion of this course, students will have achieved the ACTFL standard of: Level 4 Intermediate Low - ability to initiate, sustain and conclude conversations on a variety of familiar and learned topics, draw conclusions and examine perspectives and recognize similarities in own language.

IB Spanish SL (P)
A Code: **40400**
B Code: **40401**
C Code: **40402**
Seminar Code: **40402**
Length: 3 trimesters, 15 units
Grade Level: 11 - 12
College: UC/CSU "e" Language Other than English Requirement (A and B)
Prerequisite: "C" or better in Spanish 3
Description: International Baccalaureate (IB) Spanish Standard Level (SL) aims to develop students' critical reading and analytical writing skills in Spanish as well as their ability to make interdisciplinary connections and explore linguistic and cultural comparisons. Students are expected to discuss literary texts and their different historical, sociocultural, and geopolitical contexts in a variety of interactive oral and written formats in Spanish. Additionally, students will analyze themes and features of artistic representations, audiovisual materials, and audio sources related to course content, in the target language.

IB Spanish HL1 (P)
A Code: **40405**
B Code: **40406**
Length: 2 trimesters, 10 units
Grade Level: 11
College: UC/CSU "e" Language Other than English Requirement
Prerequisite: "C" or better in Spanish 3
Description: International Baccalaureate (IB) Spanish Higher Level (HL) 1 aims to develop students' critical reading and analytical writing skills in Spanish as well as their ability to make interdisciplinary connections and explore linguistic and cultural comparisons. Students are expected to discuss literary texts and their different historical, sociocultural, and geopolitical contexts in a variety of interactive oral and written formats in Spanish. Additionally, students will analyze themes and features of artistic representations, audiovisual materials, and audio sources related to course content, in Spanish.

IB Spanish IB HL2 (P)
A Code: **40407**
B Code: **40408**
Length: 2 trimesters, 10 units
Grade Level: 12
College: UC/CSU "e" Language Other than English Requirement
Prerequisite: Spanish IB HL1
Description: International Baccalaureate (IB) Spanish Higher Level (HL) 2 aims to develop students' critical reading and analytical writing skills in Spanish as well as their ability to make interdisciplinary connections and explore linguistic and cultural comparisons. Students are expected to discuss literary texts and their different historical, sociocultural, and geopolitical contexts in a variety of interactive oral and written formats in Spanish. Additionally, students will analyze themes and features of artistic representations,

different historical, sociocultural, and geopolitical contexts in a variety of interactive oral and written formats in Spanish. Additionally, students will analyze themes and features of artistic representations, audiovisual materials, and audio sources related to course content, in Spanish.

IB Spanish IB HL2 (P)
A Code: **40407**
B Code: **40408**
Length: 2 trimesters, 10 units
Grade Level: 12
College: UC/CSU "e" Language Other than English Requirement
Prerequisite: Spanish IB HL1
Description: International Baccalaureate (IB) Spanish Higher Level (HL) 2 aims to develop students' critical reading and analytical writing skills in Spanish as well as their ability to make interdisciplinary connections and explore linguistic and cultural comparisons. Students are expected to discuss literary texts and their different historical, sociocultural, and geopolitical contexts in a variety of interactive oral and written formats in Spanish. Additionally, students will analyze themes and features of artistic representations, audiovisual materials, and audio sources related to course content, in the target language.

AP Spanish Language & Culture A/B (AP) (P)
A Code: **40270**
B Code: **40280**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Prerequisite: "C" or better in Spanish 3 or teacher consent
Description: In this course, students learn rich, advanced vocabulary and linguistic structures as they build proficiency in all three modes of communication (presentational, interpretive and interpersonal), and use the target language in real-life settings. The course content incorporates a wide variety of academic and cultural topics (families and communities, science and technology, beauty and aesthetics, contemporary life, global challenges, personal and public identities). Materials include authentic resources in the form of audio recordings, videos, newspapers, magazines, and websites. Students are strongly encouraged to take the Seminar portion of the course to prepare for the Advanced Placement exam in May.

Seminar for AP Spanish Language & Culture
Code: **40381**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
College: Does NOT meet UC/CSU requirement
Prerequisite: AP Spanish Language & Culture
Description: This course will focus upon the development of the skills necessary to be successful in taking the Advanced Placement Exam in May.

Spanish for Native Spanish Speakers 1 A/B (P)
A Code: **40390**
B Code: **40395**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Description: This course is designed for students who are already proficient in the speaking of Spanish and will focus on the development of writing and reading skills. Students will be placed into the appropriate level based upon an assessment test given to them.

Spanish for Native Spanish Speakers 2 A/B (P)
A Code: **40396**
B Code: **40397**
Length: 2 Trimesters - 10 Units
Grade level: 9 - 12
College: UC/CSU "e" Language other than English Requirement
Description: This course is designed for students who are already proficient in the speaking of Spanish and will focus on the development of writing and reading skills. Students will be placed into the appropriate level based upon an assessment test given to them

Non-Departmental Courses

Freshmen in Transition (F.I.T.)
Code: **80009**
Length: 1 Trimester - 5 Units
Grade level: 9
Description: Freshmen in Transition (F.I.T.) is a cross-curricular course designed to bridge the transition to high school by providing students with academic and social/emotional support. Students will learn organizational, note taking and study skills; technology etiquette and computer basics; character development; and Granada High School ethics and expectations. Upon completion of F.I.T., freshmen will understand the demands of high school and be prepared to succeed through their four years at Granada. Students will also complete a four-year academic and career success plan.

Seminar for IB
Code: **15505**
Length: 1 Trimester - 5 Units
Grade level: 11 - 12
College: Does not meet UC/CSU requirement
Description: The Seminar for IB course will focus on the development of the skills necessary to be successful

in completing IB course requirements and preparing for IB exams. *This course may be repeated for credit.*

Leadership
Fall: **81000**
Winter: **81010**
Spring: **81020**
Length: 1 Trimester - 5 Units
Grade level: 9 - 12
Prerequisite: Teacher consent and submitted application for students new to Leadership.
Description: This is a leadership development and activities class for students who would like to be actively involved in a student organization or student body office. The course covers parliamentary procedures, ASB finance, principles of leadership behavior, advance planning and problem solving. Practical experience is gained through management of student government and activities. Students can sign up for the trimester of their choice and should base that choice on their own schedule and the types of school activities that they would like to be involved with.

Fall Leadership Activities:
- Matador Days
- Back to School Activities (dance, parent night)
- Freshman Elections
- Homecoming Activities
- Student Recognition
- Staff Support
- Staff Luncheon
- Publicity
- Spirit Item Designing and Selling
- Spirit Activities
- Rallies

Winter Leadership Activities:
- Staff Kids Holiday Party
- Mr. Matador
- Lip Dub
- Staff Support\
- Staff Luncheon
- Publicity
- Student Recognition
- Spirit Activities
- Black Light Rally/Rallies

Spring Leadership Activities:
- Granada's Got Talent
- ASB/Class Elections
- Powder Puff Football
- End of Year Activities
- Student Recognition
- Publicity
- Staff Support/Luncheon
- Lip Dub
- Spirit Activities
- Rallies

Work Experience Education (WEE)
Fall: **85120**
Winter: **85130**
Spring: **85140**
Length: 1 - 3 Trimesters - 5 Units Each
Grade level: 11 - 12
Prerequisite: Students must have or must obtain a job on their own within two weeks of the start of the course
Description: Work Experience Education (WEE) is an elective course that combines paid employment or paid internships with classroom instruction. Students develop strong work habits, positive attitudes, self-confidence, and job related skills. Students will develop a portfolio that highlights their abilities, knowledge and skills achieved.

Yearbook Production
A Code (Fall): **46015**
B Code (Winter): **46016**
C Code (Spring): **46017**
Length: 3 Trimesters - 5 Units Each
Grade level: 9 - 12
Prerequisite: Teacher recommendation via interview
Note: Yearbook may be an independent study class in which students will complete some of the work outside the school day.
Description: Students will work on the production of the school's yearbook. Students in this course are responsible for every aspect of page production including photography, copy, caption writing and proof correction. Students should have strong writing and computer skills. Students are also required to assist in distribution of the yearbooks.

High School Tutor
Code: **86550**
Length: 1 Trimester - 5 Units (may be repeated for credit)
Grade level: 11 - 12
Prerequisite: Consent of an administrator
Description: This course provides an opportunity for Granada students to help their peers in the areas of Math, Science and English. If you are committed, dependable and motivated by the satisfaction that comes with helping others to meet academic challenges, see your counselor or vice principal.

Special Education Classroom Aide
Code: **80580**
Length: 1 Trimester - 5 Units (may be repeated for credit)
Grade level: 11-12
Prerequisite: Teacher consent
Description: This course is designed for students who want to work with developmentally delayed students. Students assist with functional academics, vocational skills, social skills and independent living skills. They must enjoy working with people and have a positive attitude.

* Students may enroll in only one of the following courses each academic year:

Teacher Assistant*
Code: **86300**
Length: 1 Trimester - 5 Units
Grade level: 11 - 12
This course earns elective credit and will be graded as Pass/Fail.
Prerequisite: Teacher or staff approval. Forms in Student Services and Counseling and Career Center.
Description: This program is designed to give students an opportunity to obtain experience in various phases of classroom operations. Students gain clerical and other types of office experience and in some cases may assist with some of the teaching duties.
Note: 11th graders may request Teacher Assistant as an alternate only. 12th graders may request Teacher Assistant only if they have 10 other classes.

Library Assistant/IWE-Library*
Code: **86118**
Length: 1 Trimester - 5 Units
Grade level: 11 - 12
This course earns elective credit and will be graded as Pass/Fail.
Prerequisite: Teacher or staff approval. Forms in Student Services and Counseling and Career Center.
Description: This program is designed to give students experience in working in a library. All functions necessary for library assistantship will be taught. Students must be reliable and able to work independently.
Note: 11th graders may request Library Assistant as an alternate only. 12th graders may request Library Assistant only if they have 10 other classes.

Office Assistant/IWE-Office*
Code: **86118**
Length: 1 Trimester - 5 Units
Grade level: 11 - 12
This course earns elective credit and will be graded as Pass/Fail.
Prerequisite: Teacher or staff approval. Forms in Student Services and Counseling and Career Center.
Description: This program is designed to give students an opportunity to obtain experience in various phases of school office operations. The student will be placed in a specific office. Students gain clerical and other types of office experience. Students must uphold confidentiality, be personable, reliable, motivated and able to work independently.
Note: 11th graders may request Office Assistant as an alternate only. 12th graders may request Office Assistant only if they have 10 other classes.

Alma Mater

Granada, Granada, we stand and
sing to thee,
We carry thy banner to every
victory
The years here together shall
last a lifetime thru,
To all thy rules of honor
we e'er will be true
Too soon we will depart these halls
and travel far and wide,
But as we make our way
through life,
Thy name we'll say with pride
Granada, Granada, thy honor
never fail
To thee our Alma Mater,
hear us,
Hail! Hail! Hail!

NOTES:

Granada High School
A-G Worksheet

A-Social Science *2 years required*
- ❑ AP European History*
- Δ AP Government and Politics*
- ❑ AP United States History*
- Δ Civics
- ❑ IB History of Americas HL1*
- ❑ IB Hist. of Americas HL2*
- Δ Social Science
- ❑ Social Science MYP
- ❑ Social Science Honors
- ❑ Social Science Honors MYP
- ❑ US History
- Δ Women in American History
- ❑ World History
- ❑ World History Honors

B-English *4 years required*
- Δ American Identities Ethnic Literature
- ❑ AP English Language Composition*
- ❑ AP English Literature Composition*
- ❑ English 9
- ❑ English 9 MYP
- ❑ English 9 Honors
- ❑ English 9 Honors MYP
- ❑ English 10
- ❑ English 10 Honors
- ❑ English 11
- ❑ English 12
- ❑ Fantasy & Science Fiction
- ❑ IB Language and Literature HL1*
- ❑ IB Language and Literature HL2*
- Δ Mythology
- Δ Satire
- Δ Short Story
- Δ Shakespeare

C-Mathematics
3 years required, 4 years recommended
- ❑ Algebra I
- ❑ Algebra I MYP
- ❑ Algebra II
- ❑ AP Calculus AB*
- ❑ AP Calculus BC*
- ❑ AP Computer Science*
- ❑ AP Statistics*
- ❑ Calculus
- ❑ Geometry
- ❑ Geometry MYP
- ❑ IB Math Analysis/Approaches SL*
- ❑ IB Math Analysis/Approaches SL1
- ❑ IB Math Analysis/Approaches HL1*
- ❑ IB Math Analysis/Approaches HL2*
- ❑ IB Math Applications/Interpret SL*
- ❑ IB Math Applications/Interpret SL1
- Δ Multivariable Calculus*
- ❑ Statistics
- ❑ Pre-Calculus

D-Lab Science
2 years required, 3 years recommended
- ❑ AP Biology*
- ❑ AP Chemistry*
- ❑ AP Computer Science Principles*
- ❑ AP Physics C: Mechanics*
- ❑ Astronomy
- ❑ Biology
- ❑ Biology MYP
- ❑ Biotechnology I,II
- ❑ Chemistry
- ❑ Conceptual Physics
- ❑ Field Biology
- ❑ IB Biology HL1*
- ❑ IB Biology HL2*
- ❑ IB Biology SL
- ❑ IB Chemistry SL*
- ❑ IB Physics SL*
- ❑ Marine Biology
- ❑ Physics
- ❑ Physiology
- ❑ PLTW Civil Engineering/Arch
- ❑ PLTW Computer Science Principles
- ❑ PLTW Cybersecurity
- ❑ PLTW Intro to Engineering Design
- ❑ PLTW Principles of Engineering

E-World Language *2 years required, 3 years recommended*
- ❑ American Sign Language I,II,III
- ❑ AP Spanish Language and Culture*
- ❑ Chinese (Mandarin) I
- ❑ French I,II,III
- ❑ IB French HL1*
- ❑ IB French HL2*
- ❑ IB French SL*
- ❑ IB Spanish HL 1*
- ❑ IB Spanish HL 2*
- ❑ IB Spanish SL *
- ❑ Spanish I,II,III,IV
- ❑ Spanish I,II MYP
- ❑ Spanish Native Speaker I,II

F-VPA *1 year required*
- ❑ Advanced Theater Workshop
- ❑ Animation
- ❑ AP Studio Art (2D, 3D, Drawing)*
- ❑ AP Drawing*
- ❑ Art
- ❑ Ceramics
- ❑ Concert Choir
- ❑ Digital Photography
- ❑ IB Dance HL1*
- ❑ IB Dance HL2*
- ❑ IB Dance SL
- ❑ IB Theater Arts HL 1 A/B
- ❑ IB Theater Arts SL A/B/C
- ❑ IB Visual Arts HL 1 A/B
- ❑ IB Visual Arts SL 1 A/B/C *
- ❑ Jazz Ensemble
- ❑ Orchestra
- ❑ ROP Animation Motion Graphics
- ❑ ROP Honors Artist Portfolio
- ❑ ROP Video Game Art and Design
- ❑ ROP Visual Communications
- ❑ Show Choir
- ❑ Symphony Band
- ❑ Theatre Arts (Drama)
- ❑ Video Production

G-College Prep Elective *1 year required*
- Δ Biochemistry
- ❑ Consumer Math
- Δ Creative Writing
- ❑ Cybersecurity: ICT Essentials I
- Δ Economics
- Δ Ethnic Studies: America's Social
- ❑ Exploring Computer Science
- ❑ Game Design
- Δ Health Education
- ❑ Internet Engineering I (CCNA1)
- ❑ Internet Engineering II (CCNA2)
- Δ Intro to Computer Programming
- Δ Positive Psychology
- ❑ IB Psychology SL*
- ❑ IB Psychology HL1*
- ❑ IB Psychology HL2*
- ❑ IB Theory of Knowledge*
- ❑ PLTW Computer Integrated Man
- ❑ ROP Advanced Auto Body Repair
- ❑ ROP Auto Body Repair
- ❑ ROP Automotive Technology
- ❑ ROP Criminal Justice Academy
- ❑ ROP Dev Psychology of Children
- ❑ ROP Economics of Bus Ownership
- ❑ ROP Integrated Marketing Com
- Δ ROP Introduction to Business
- ❑ ROP Introduction to Health Careers
- ❑ ROP Intro to Criminal Justice
- ❑ ROP IT Essentials (Cybersecurity)
- ❑ ROP Medical Occupations
- ❑ ROP Nursing Careers
- ❑ ROP Sports Medicine/Athletic Train
- ❑ ROP Sports Medicine II
- ❑ ROP Intro to Health Careers
- Δ Sports Psychology
- ❑ Studio Broadcast Productions

Key: * **Indicates a class that has been approved by CSU/UC for extra honors credit**
❑ **Indicates a 10 unit (1 year / 2-trimester) course**
Δ **Indicates a 5 unit (1 trimester) course**

Revised: Catalog 2/2021

MY 4 YEAR PLAN

CAREER PLAN

Industry Sector_____

Pathway _____

Career _____

Name_____ Class of _____

Academic Program Plan

☐ Diploma/Career/Community College
☐ Community College/Transfer to 4yr
☐ 4 YR College
☐ 4 YR College – Highly Competitive

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
1. _____	1. _____	1. _____	1. _____
2. _____	2. _____	2. _____	2. _____
3. _____	3. _____	3. _____	3. _____
4. _____	4. _____	4. _____	4. _____
5. _____	5. _____	5. _____	5. _____
6. PE 1A	6. _____	6. _____	6. _____
7. PE 1B	7. P.E. 2A	7. _____	7. _____
8. F.I.T.	8. P.E. 2B	8. _____	8. _____
9. _____	9. _____	9. _____	9. _____
10. _____	10. _____	10. _____	10. _____
11. _____	11. _____	11. _____	11. _____
12. _____	12. _____	12. _____	12. _____
13. _____	13. _____	13. _____	13. _____
14. _____	14. _____	14. _____	14. _____
15. _____	15. _____	15. _____	15. _____

*Enrolling in 12 courses is full-time and on track to graduate.

Granada High School Graduation Requirements:

☐**Social Science**	35 units	☐**PE**	20 units
☐**English**	40 units		
☐**Math** (must pass Alg 1 A/B)	20 units	☐**Health**	5 units
☐**Science** (10 units Biology and 10 units of Physical Sci.)	20 units	☐**Electives**	70 units
☐**Visual/Performing Arts** ***or* World Language** ***or* CTE**	30 units (in at least 2 of 3 categories)		
		Total	**240 units**

UC/CSU Entrance Requirements

☐ a. **History/Social Science**	2 years
☐ b. **English**	4 years
☐ c. **Mathematics**	3 years (4 recommended)
☐ d. **Lab Science**	2 years (3 recommended)
☐ e. **World Language**	2 years (3 recommended)
☐ f. **Visual/ Performing Arts**	1 year
☐ g. **College Prep Elective**	1 year

✺ Students must complete 110 units (11 a-g courses) with grade of C- or better by the end of their junior year. ☐UC/CSU--SAT I or ACT