



ANN SOBRATO HIGH SCHOOL
COURSE DIRECTORY
And
REGISTRATION INFORMATION

School Year
2019 – 2020

(updated 2/6/19)

A MESSAGE FROM THE PRINCIPAL

Dear Students and Parents,

The staff at Ann Sobrato High School wants all students to be successful. We believe that the first step in this process is to help parents and students select appropriate courses to meet high school graduation requirements and college and career goals.

To assist you, we have:

- developed a Course Directory
- planned small-group student advisories to discuss graduation requirements, and college and career readiness
- counselors have met one-on-one with students to discuss their course requests
- scheduled an evening event where parents and students can receive information, ask questions, and meet with teachers, counselors and administrators.

We recommend that parents and students discuss:

- What are your goals for high school?
- What do you hope and plan to do after high school?
- What are your interests, skills, and academic strengths?
- Based upon your goals, strengths, and current successes in school, what courses do you want and/or need to take?
- Will your choices allow you to continue your education after high school?

Please consider the following:

- Each student is different and therefore has different needs. Request courses that meet your student's needs, strengths, and goals.
- Students' interests, goals, and strengths may change. Try to request an academic program that keeps the student's future options open.
- We strongly recommend that students take the **most academically demanding program** that they can **successfully complete**.

The courses requested this spring determine our hiring and master schedule for the fall. This is why changes to course requests are not possible after May.

We are looking forward to another wonderful year! Good luck, and...**GO BULLDOGS!!**

Sincerely,



Courtney Macko
Principal

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OVERVIEW OF REGISTRATION PROCESS

January - February

During Advisory periods, students review:

- o high school graduation requirements and credit recovery options
- o how to request courses related to college admissions and career goals

February

- Course Information Night on **February 6th at 5:30 pm** is an event where students and their families can meet with teachers and counselors to discuss courses that best match a student's college or career goals.
- Students and parents are invited to get information about registration for courses, graduation requirements, college admissions requirements, and registration timelines.
- Teachers, counselors and administrators are available to answer questions about course sequences and electives within each department. Teachers are the course content experts and can answer all questions specific to their department's courses.

February - April

Students' course selections are tallied and staffing needs are identified.

May

Parents and students can review on the Aeries Portal the courses requested. Students and parents may request an adjustment to the selected requested. However, based on space availability, not all requests for adjustments can be honored.

August

During student orientation, students receive their class schedules. If a course placement error has been made, students may go to the counseling office to review schedule adjustment options.

Morgan Hill Unified School District

High School Graduation Requirements

Morgan Hill Unified School District's default curriculum is considered basic academic preparation for college, trade school, military, and career readiness. In order to be eligible to apply to any school in the University of California (UC) or the California State University (CSU) systems, you must take certain classes in high school known as the "A-G requirements." The MHUSD graduation requirements cover all the A-G requirements. Students who complete the default curriculum of College Prep (CP) courses with **grades of C or higher** will be eligible to apply to four-year universities. This required curriculum also provides excellent preparation for career paths and the world of work.

Morgan Hill Unified Graduation Requirements

- A. **Social Studies** (3 years – World History, US History, Civics/Econ)
- B. **English** (4 years – Eng 9, Eng 10, Eng 11, Eng 12)
- C. **Math** (3 years required–Integrated Math 1, Integrated Math 2, Integrated Math 3)
- D. **Science** (3 years– Biology, Chemistry, Physics)
- E. **Language** (2 years or equivalent; equivalency can also be shown via AP Exam, SAT II subject test required – see below)
- F. **Visual and Performing Arts** (1 year)
- G. **College Prep elective** (1 year – an additional A-F course)

Additional Graduation Requirements:

- o **Physical Education** (2 years, including PE 9 and the CA Fitness test)
- o **CTE – Career Technical Education** (1 year course – may be a course that also meets VPA)

Total of 220 credits

Language Equivalency

Students who read, write, and speak a language other than English may be eligible for a waiver from coursework. Students who are fluent in another language should speak with their counselor regarding receiving language equivalency. Upon passing any of the exams below, students can receive language equivalency for graduation and submit language requirement for university admissions purposes.

AP Exams are available in Spanish, French, Chinese, Japanese, German, and Italian. Student interested in demonstrating proficiency via an AP exam should see a counselor and sign up for the appropriate AP exam. AP Exams are available only once a year in May. AP Exams are ordered and proctored at Sobrato. The approximate fee is \$94 per exam. Students can get more information about AP Exams at <http://apcentral.collegeboard.com> .

SAT Subject Tests are available in Spanish, French, Chinese, Japanese, German, Italian, Modern Hebrew, Latin, and Korean. Students interested in demonstrating proficiency via a Subject Area test should see a counselor and sign up on College Board to take the appropriate Subject Area test. These tests are available several times a year but are NOT proctored at Sobrato. The approximate fee is \$48 per exam. Students can get more information about Subject Tests at <http://sat.collegeboard.org/about-tests> .

College/University Testing Requirements

Admission to a four-year university usually requires a college admission test such as the SAT or the ACT. Most, but not all, colleges accept either test. These tests are taken no later than the fall of the senior year. Many students take the first exam during their junior year. Students will report SAT or ACT scores on their college applications.

The **SAT** contains three sections: Reading, Math, and Writing and Language. The **ACT** contains four sections: Reading, Math, English, and Science. Both also have an optional essay that the counseling department recommends students take, as many schools list it as a requirement. It is also recommended that students take a SAT Subject Test as soon as appropriate after the completion of the coursework if they are planning to apply for a STEM major (after an AP exam). Students should research the requirements or recommendations for the universities to which they hope to apply.

Invaluable practice for the SAT is the **PSAT** (Preliminary SAT) which students can register to take in October at Sobrato. We recommend that all students take this test at least once. Juniors taking the PSAT may also qualify for a National Merit Scholarship Program.

It is the counseling department's recommendation that all college-bound students register for and take the SAT and ACT at least 3 to 5 times prior to applying for college beginning in the spring of their junior year. To practice for both tests Naviance can be utilized free of charge. The link for Naviance is <https://connection.naviance.com/family-connection/auth/login/?hsid=annsh>. The students can use their school email as their username and their student ID number for their password.

For more information on the SAT Test, Subject Tests, and the PSAT, visit the College Board website at <http://sat.collegeboard.org/about-tests>. For more information on the ACT Test visit www.actstudent.org.

The counseling department has fee waivers for both tests for students that receive free or reduced lunch.

Social Studies – Subject Area A

130200 World Geography: Global Perspective Year 9 Social Studies Meets Requirement “G” for CSU/UC
Suggested Course Preparation: Satisfactory achievement in 8th grade U.S. History.

This course allows students to gain a better understanding of the modern world. Focusing initially on global topics, then on regional studies, students will broaden their perspectives about the world. Throughout the course, current issues and their effects on people around the world are examined. In addition, students receive college-preparatory skills as they engage in discussions, practice their critical thinking, research, and writing skills, engage in oral presentations, and learn to recognize conflicting points of view and formulate their own position. Students who are interested in taking Advanced Placement World History in 10th grade are highly recommended to enroll in World Geography in 9th grade to practice the skills necessary to succeed.

919870 World History CP Year 10 Social Studies Meets Requirement “A” for CSU/UC
Suggested Course Preparation: Satisfactory achievement in 9th grade World Geography and/or Advanced English 9.

Description: This course provides students with a background in world history beginning with the Rise of Democratic Ideas from Ancient Greece and Rome. It covers the Scientific and Industrial Revolutions, the Enlightenment, Imperialism, the two World Wars and concludes with contemporary world issues, which allows students to gain a better understanding of the modern world. Through utilizing the text, research, hands-on projects, individual and group presentations, essays, and Socratic Seminars, students will sharpen skills necessary to analyze and evaluate the events of history.

160400 AP World History Year 10 Social Studies Meets Requirement “A” for CSU/UC
Suggested Course Preparation: Satisfactory achievement in 9th grade World Geography and/or Advanced English 9. Summer assignment is required.

Description: Advanced Placement World History is taught as a college equivalent class. It traces the development of world history from the Early Modern Era (1450) to the recent era. Special attention will be paid to the assessment of change and continuity over time, the development of nations and their interactions with one another, and the dynamics of political, economic, religious, and intellectual developments within each. The class incorporates both extensive reading in a college level textbook and interpreting primary sources as well as historical, analytical, and writing skills necessary for success in a college level history class. Students will develop the skills necessary to pass, and are expected to take, the AP World History examination in the spring.

130310 US History CP Year 11 Social Studies Meets Requirement “A” for CSU/UC
Suggested Course Preparation: Satisfactory achievement in 8th grade U.S. History, CP/AP World History

Description: This course emphasizes U.S. History in the 19th, 20th, and 21st centuries. Students will focus on the following major units: Political and Religious Foundations of America, Industrialization and America’s Rise to World Power, Social and Political Changes between the World Wars, Domestic Issues after WWII, and Foreign Affairs after WWII into the modern era. These units, organized into historical periods/themes, provide a detailed view of the critical events, people, and processes, which have created the United States of the 21st century. A wide range of materials and learning activities are incorporated within the course: lecture/note-taking, researching and writing, document analysis, videos, group and individual presentations, projects, and simulations.

160310 AP US History Year 11 Social Studies Meets Requirement “A” for CSU/UC
Suggested Course Preparation: Satisfactory achievement in 8th grade U.S. History, CP/AP World History. Summer assignment is required.

Description: Advanced Placement U.S. History compares to a college-level United States History survey course. The course challenges students to rigorously examine the main issues and problems of American history, from the pre-Columbian period to the present. In covering the breadth of this period, students will address the political, economic, social, diplomatic, and cultural dimensions within each era. In-depth reading of the college-level text, several supplementary books, and primary source documents are incorporated, along with analytical writing skills and projects to promote student engagement and retention of content. Students will develop the skills necessary to pass, and are expected to take, the AP U.S. History examination in the spring.

Note: Students have the exciting opportunity to be involved in AP American Studies when they sign up for both AP U.S. History and AP. Language and Composition. This is a site based curriculum where the teachers in the program collaborate to plan deadlines, homework, and lessons. For example, the content presented in English will align with the the historical time period being taught in history at any given time. Students will still take both AP exams in May.

130550 Civics CP Sem 12 Social Studies Meets Requirement "A" for CSU/UC

Description: This one-semester class is offered in combination with Economics as a requirement for graduation. As students prepare to vote, participate in community activities, and assume the responsibilities of citizenship, they will learn about the American system of government and politics, and explore current issues. Interpretation of the Constitution and other historical documents are also emphasized. Students must complete the district outside points requirement by attending public meetings and court proceedings, and clearing their community service requirement, while enrolled in this course.

130650 Economics CP Sem 12 Social Studies Meets Requirement "A" for CSU/UC

Description: This one-semester course is offered in combination with Civics as a requirement for graduation. It focuses on basic economic principles: supply and demand, banking and monetary policies, unemployment, and inflation, as well as the role of consumers, government, and labor in the economy. Students will learn about various economic systems, micro and macroeconomics, and international trade, as well as studying about personal finance and investing, and how to file taxes, while applying tools such as graphs, statistics, and equations to their understanding.

130050 Psychology CP Sem 11-12 Social Studies Meets Requirement "G" for CSU/UC

Suggested Course Preparation: Satisfactory achievement in 10th grade CP/AP World History

Description: Combined with the Sociology, Marriage, Sex & Family class (below), this semester class will fulfill a year of Social Sciences. It is an introductory psychology course, studying human behavior and mental processes. Personality theories, learning and memory, sensation and perception, psychological theorists, consciousness, psychological disorders and mental illnesses are incorporated within the course. Class structure includes reading from the text, lecture, discussion and participation as well as guest speakers.

120020 Marriage, Sex & Family CP Sem 11-12 Social Studies Meets Requirement "G" for CSU/UC

Suggested Course Preparation: Parent permission is required

Description: Paired with the Psychology class (above), this semester course will fulfill a year of Social Sciences. This introductory sociology course will investigate a range of contemporary issues which include, but are not limited to, human relationships, marriage, sex (including reproduction and sexually transmitted infections), family, education, comparative cultures, life skills, handling stress, addictions, loss, gender and sexuality issues. The structure of the course includes text and article readings, student projects, research, guest speakers and class discussions.

130150 AP Psychology

Sem 11-12 Social Studies Meets Requirement "G" for CSU/UC

Suggested Course Preparation: This course is open to 11th and 12th grade students. Successful completion of CP Psychology/Marriage, Sex, & Family is recommended but not required. Summer assignment is required.

Description: The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students are expected to take the AP Psychology examination in the spring.

English – Subject Area B

213023 English 9 Adv A-G
CSU/UC

Year 9-12 English

Meets Requirement “B” for

Suggested Course Preparation: Satisfactory achievement in Advanced English 8

Description: In the Advanced English 9 course, students will work toward mastery of the Common Core State Standards for English Language Arts. Units of study will be created around essential questions and will utilize a balanced literacy approach between literature and informational text, traditional text and multimedia, formative and summative writing, independent practice and collaborative learning. Students will investigate Essential Questions about argumentation, individual choices, heroism, and social justice by reading both assigned and choice literature and informational text.

213024 English 10 Adv A-G

Year 10-12 English

Meets Requirement “B” for CSU/UC

Suggested Course Preparation: Satisfactory achievement in Advanced English 9

Description: The 10th grade English course aligns with the California 9th and 10th Common Core Standards and builds upon students’ prior skills acquired. The course requires extensive reading of a variety of genres, both fiction and nonfiction with a consideration of historical and cultural context. Class work requires proficiency in analytical reading and writing with respect to determining a theme or central idea and analyzing how explicit word choice and implicit understanding of author’s purpose and audience determines understanding of text. Students will be able to analyze information from multiple sources and will synthesize the information by including citations into their works using precise language and specific vocabulary. Students will be able to interpret and evaluate the impact of figurative language and universal themes.

213050 English 11 Adv A-G

Year 11 English

Meets Requirement “B” for CSU/UC

Suggested Course Preparation: Satisfactory achievement in Advanced English 10

Description: The 11th grade English course in MHUSD is designed to build upon students’ prior skills aligned with the 11th-12th grade Common Core State Standards. The course will require extensive reading of a variety of genres, both fiction and nonfiction, in order to demonstrate grade level comprehension, a depth of understanding, awareness of text purpose, audience, and occasion, and to analyze and interact with the text. Students will receive regular practice in writing, and will be required to write extensive and structured papers directed at various audiences and responding to a variety of rhetorical tasks, especially analysis and persuasion. Students will demonstrate knowledge and ability to move through the writing revision processes. All students will participate in active discussions in both large and small groups, demonstrating an ability to listen actively and to think critically.

261050 AP English Language

Year 11 English

Meets Requirement “B” for CSU/UC

Suggested Course Preparation: Satisfactory achievement in Advanced English 10

Description: The Advanced Placement Language and Composition course is designed to build upon the literature, composition, vocabulary, and other communications skills addressed in 10th grade English classes. Students engage in a variety of learning experiences: writing, research, oral presentations, reading of various genres, group work, and independent study. Through these experiences, students will explore the development of rhetoric as part of American history and thought. Students will also strive to improve competence in writing well-developed essays and participating in engaging and questioning discussions. The AP class prepares students for the Advanced Placement Exam in May as well as provides a rigorous learning environment which emulates a college level course and may provide students college credit with a passing grade on the AP Exam. Students will develop the skills necessary to pass, and are expected to take, the AP U.S. History examination in the spring.

Mathematics – Subject Area C

313224 Integrated Math 1

Year 9-12 Math

Meets Requirement “C” for CSU/UC

Suggested Course Preparation: Satisfactory achievement in Math 8

Description: Integrated Math 1 objectives include , but are not limited to, the following units: modeling with functions, linear functions, linear equalities and inequalities in one and two variables, rules of motion, geometric relationships and properties and statistics. The following eight standards for mathematical practice will be included within the course structure: perseverance, reasoning, construction of arguments, modeling of mathematics, use of the appropriate tools of mathematics, precision, use of structure and identifying patterns.

313225 Integrated Math 2

Year 9-12 Math

Meets Requirement “C” for CSU/UC

Suggested Course Preparation: Satisfactory achievement in Integrated Math 1. It is recommended that a student complete Integrated Math 1 with a grade of C or better. Students who earn a grade of C- in Integrated Math 1 may need additional support to be successful in this course.

Description: Integrated Math 2 objectives include, but are not limited to, the following units: family of functions, graphing form of family of functions, coordinate geometry, quadratic functions and equations, similar figures, circles, probability, introduction to logarithms, the unit circle, sine and cosine curve and geometric modeling. The following eight standards for mathematical practice will be included within the course structure: perseverance, reasoning, construction of arguments, modeling of mathematics, use of the appropriate tools of mathematics, precision, use of structure and identifying patterns.

313226 Integrated Math 3

Year 10-12 Math

Meets Requirement “C” for CSU/UC

Suggested Course Preparation: Satisfactory achievement in Integrated Math 2. It is recommended that a student complete Integrated Math 2 with a grade of C or better. Students who earn a grade of C- in Integrated Math 2 may need additional support to be successful in this course.

Description: Integrated Math 3 objectives include, but are not limited to, the following units: geometric measurement and dimension, exponential functions, trigonometric ratios and functions, functions, rational and polynomial expressions, statistics and modeling of units. The following eight standards for mathematical practice will be included within the course structure: perseverance, reasoning, construction of arguments, modeling of mathematics, use of the appropriate tools of mathematics, precision, use of structure and identifying patterns.

313850 Statistics CP

Year 11-12 Math

Meets Requirement “C” for CSU/UC

Suggested Course preparation: Satisfactory achievement in Integrated Math 3. It is recommended that student complete Integrated Math 3 with a C or higher.

Description: This course is designed to be a project-based introduction to applied statistics. Reasoning statistically is essential to being an informed citizen and consumer. By the end of this course, students shall have rudimentary knowledge of statistical reasoning and skills that support an informed populace.

314910 Pre Calc/Trig CP

Year 11-12 Math

Meets Requirement “C” for CSU/UC

Suggested Course Preparation: Satisfactory achievement in Integrated Math 3. It is recommended that a student earn a grade of B or better in Integrated Math 3. Students who earn a C in Integrated Math 3 may need additional support to be successful in this course.

Description: The objective of this course is to prepare students for college calculus. Topics include but are not limited to the following: trigonometric functions and their inverses, graphs and identities, trigonometric laws and formulas, trigonometric equations, limits of functions, and introduction to derivatives. The following eight standards for mathematical practice will be included within the course structure: perseverance, reasoning, construction of

arguments, modeling of mathematics, use of the appropriate tools of mathematics, precision, use of structure and identifying patterns.

316750 AP Calculus AB

Year 11 - 12 Math

Meets Requirement "C" for CSU/UC

Suggested Course Preparation: Satisfactory achievement in Pre Calc/Trig with a grade of B or better. Students who have successfully completed the placement test in the Integrated Math 3 and have received a grade of B or better can also advance directly to this course. Students who earn a C in Pre Calc/Trig may need additional support to be successful in this course.

Description: This is a college level course which follows the College Board's outline. The course includes but is not limited to the following topics: properties of relationships of polynomials, exponential, logarithmic, circular functions, method of approximation, concepts of limits, differential and integral calculus. The following eight standards for mathematical practice will be included within the course structure: perseverance, reasoning, construction of arguments, modeling of mathematics, use of the appropriate tools of mathematics, precision, use of structure and identifying patterns. Students will develop the skills necessary to pass, and are expected to take, the AP Calculus AB examination in the spring.

316755 AP Calculus BC

Year 11 -12 Math

Meets Requirement "C" for CSU/UC

Suggested Course Preparation: Satisfactory achievement in AP Calculus AB with a grade of B or better. Students who earn a C in AP Calc AB may need additional outside support to be successful in this course.

Description: This is a college level course which follows the College Board's outline. The course extends topics from Calc AB. It includes but is not limited to the following topics: properties of relationships of polynomials, exponential, logarithmic, circular functions, method of approximation, concepts of limits, differential and integral calculus. The following eight standards for mathematical practice will be included within the course structure: perseverance, reasoning, construction of arguments, modeling of mathematics, use of the appropriate tools of mathematics, precision, use of structure and identifying patterns. Students will develop the skills necessary to pass, and are expected to take, the AP Calculus BC examination in the spring.

316850 AP Statistics

Year 11-12 Math

Meets Requirement "C" for CSU/UC

Suggested Course Preparation: Successful achievement in Integrated Math 3 with a grade of A, or satisfactory achievement in CP Statistics with a grade of C or better, or satisfactory achievement in Pre Calc/Trig with a B or better. Students who do not meet these suggested guidelines may need additional outside support to be successful in this course.

Description: This is a college level course, which follows the College Board's outline. The student will learn the many aspects of statistics. Topics include the exploration and description of data, planning statistical research, probability testing and experiments, and statistical inference and modeling. Students will develop the skills necessary to pass, and are expected to take, the AP Statistics examination in the spring.

312260 Math Support

Year 12 Elective

Suggested Course Preparation: Criteria for placement in this course will be based upon performance in previous math classes

Description: This course is designed to provide support for Integrated Math 3 students who have demonstrated difficulty in math concepts. **This course counts as elective credit toward graduation but is NOT a UC/CSU-approved math course.**

Science – Subject Area D

Either Biology CP or Biology CP/Ag will meet the life science requirement. Chemistry CP or Agriculture Soil Chemistry CP will meet the physical science requirement for year one. Physics CP or AP Physics 1 will meet the physical science requirement for year two.

Once the graduation requirements are met, upper level science courses may be taken as electives for both graduation and college entrance requirements. The UC/CSU systems and most colleges recommend three high school science classes for students to apply.

413400 Biology CP **Year 9-12 Life Science** **Meets Requirement “D” for CSU/UC**
Suggested Course Preparation: Concurrent enrollment in Integrated Math 1 or higher

Description: Biology is a one-year college preparatory course in laboratory life science that is required for graduation by all students. Course topics typically include but are not limited to cellular biology, genetics, growth and reproduction, structural basis of function in living systems, chemistry of living systems, quantitative problem-solving, and data acquisition and display. Students will be involved in laboratory exercises as well as field experiences to enhance their learning.

413450 Biology CP/Ag **Year 9-12 Life Science** **Meets Requirement “D” for CSU/UC**
Suggested Course Preparation: Concurrent enrollment in Integrated Math 1 or higher

Description: Agricultural Biology courses apply biological principles and understanding to plant and animal science in order to produce or refine agricultural products. Course topics typically include but are not limited to cellular biology, genetics, growth and reproduction, structural basis of function in living systems, chemistry of living systems, quantitative problem-solving, and data acquisition and display. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

413500 Chemistry CP **Year 10-12 Physical Science** **Meets Requirement “D” for CSU/UC**
Suggested Course Preparation: Successful completion of Biology CP or Biology CP/AG and Integrated Math 1, concurrent enrollment in Integrated Math 2 or higher

Description: Chemistry is a one-year college preparatory course in laboratory physical science. Students will study the particulate nature of matter and models of the atom as they apply to gas behavior, energy transfer, thermochemistry, molar relationships, stoichiometry, bonding, nuclear and organic chemistry, equilibrium and acid-base behavior. Laboratory experiences will be used to develop the scientific models used to explain chemical phenomena.

415500 Soil Chemistry Ag CP **Year 10-12 Physical Science** **Meets Requirement “D” for CSU/UC**
Suggested Course Preparation: Successful completion of Biology CP or Biology CP/AG and Integrated Math 1, concurrent enrollment in Integrated Math 2 or higher.

Description: This course explores the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Students examine properties of soil and land and their connections to plant and animal production. Using knowledge of scientific protocols as well as course content, students develop an Agriscience research program to be conducted throughout the first semester of the course. To complete that whole

project each student will investigate and test an Agriscience research question by formulating a scientific question related to the course content, formulating a hypothesis based on related research, conducting an experiment to test the hypothesis, collecting quantitative data, and forming a conclusion based on analysis of the data. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

416700 AP Environmental Science **Year 11-12 Elective** **Meets Requirement “D” or “G” for CSU/UC**

Suggested Course Preparation: Satisfactory achievement in Biology CP or Biology CP/AG, and Chemistry or Agriculture and Soil Science CP recommended.

Description: AP Environmental science is a one-year course in a laboratory life science devoted to the study of the world in which we live. Students will be introduced to concepts in ecology, populations, water, air, land, mineral and energy resources, human health and the future. Field trips and laboratory exercises will be an integral part of this course. A college textbook and technology will be used. Students will develop the skills necessary to pass, and are expected to take, the AP Environmental Science examination in the spring.

413900 Physics CP **Year 11-12 Physical Science** **Meets Requirement “D” or “G” for CSU/UC**

Suggested Course Preparation: Satisfactory achievement in Biology CP or Biology CP/AG, and Chemistry or Agriculture and Soil Science CP, and concurrent enrollment in Integrated Math 3 or higher math recommended.

Description: Physics is a one-year college preparatory course in laboratory physical science. Students will study density, buoyancy, kinematics, dynamics, Newton’s Laws, projectile motion, energy and work, impulse and momentum, mechanical waves, as well as electricity and magnetism. Laboratory experiences and designed projects will be used to develop the scientific models used to explain physical phenomena.

416900 AP Physics 1 **Year 11-12 Physical Science** **Meets Requirement “D” or “G” for CSU/UC**

Suggested Course Preparation: Satisfactory achievement in Biology CP or Biology CP/AG, and Chemistry or Agriculture and Soil Science CP, and concurrent enrollment in Integrated Math 3 or higher math recommended.

Description: Advanced Placement Physics 1 is a physical science course designed to be the equivalent of the algebra-based physics university course which counts toward the physical science requirement on the A-G for many CSU and UC schools. Learning experiences provide in-depth coverage of topics including motion and forces, conservation of energy and momentum, waves and sound, electrostatics and electrical current. Laboratory experiments and observations are used to demonstrate mathematical applications of natural laws. A college textbook will be used. All AP criteria for laboratory work will be met. Students will develop the skills necessary to pass, and are expected to take, the AP Physics I examination in the spring.

410110 AP Physics 2 **Year 11-12 Elective** **Meets Requirement “D” or “G” for CSU/UC**

Suggested Course Preparation: Satisfactory achievement in Biology CP or Biology CP/AG, and Chemistry or Agriculture and Soil Science CP, and Physics CP or AP Physics 1, and concurrent enrollment in a math course higher than Integrated Math 3 recommended.

Description: Advanced Placement Physics 2 is a physical science course designed to be the equivalent of the second semester of an algebra-based physics university course which counts toward the physical science requirement on the A-G requirement for many CSU and UC schools. Learning experiences provide in-depth coverage of topics including fluids, thermodynamics, pressure, electricity, magnetism, optics and modern physics. Laboratory experiments and observations are used to demonstrate mathematical applications of natural laws. A college textbook will be used. All

515750 Advanced Studio Art **Year 10-12 CTE/VPA** **Meets Requirement "F" or "G" for CSU/UC**
Suggested Course Preparation: Studio Art I

Description: This course offers the more advanced/experienced art student the challenge to improve on the basic fundamentals, while introducing them to a broader scope of media, art history and the opportunity to focus on developing one's creative voice. By taking this course students will begin to create a personal portfolio providing a strong foundation for explorations in AP Studio Art and/or enriching supplemental materials for college applications. Students will have opportunities to show their artwork and will be encouraged to enter contests. Students interested in taking four years of Studio Art classes, culminating in AP Studio Art, are encouraged to repeat this course. This course may be repeated for credit.

516750 AP Studio Art **Year 11 - 12 CTE/VPA** **Meets Requirement "F" or "G" for CSU/UC**
Suggested Course Preparation: Studio Art I

Description: This course offers an opportunity for students to apply previously learned skills and explore/develop personal imagery while preparing a portfolio to be evaluated by the Advanced Placement Committee (portfolio is in lieu of exam). Major concepts emphasized in this course: increasing quality of students' work-- both conceptually and technically, concentration on an individual series of images that explore a specific idea or theme, and evidence of tenacity/creativity in pursuing the development of one's artistic vision. Students who earn a passing grade on the portfolio evaluation may be granted college credit.

513850 Ceramics CP **Year 9 - 12 CTE/VPA** **Meets Requirement "F" or "G" for CSU/UC**

Description: This course provides introductory experiences in both hand-built and wheel-thrown ceramics as well as sculpture. Students will create works that reflect a functional and aesthetic understanding of three dimensional elements of art and design. Students will learn about contemporary art as well as artists of the past. Hand building techniques like pinching, slab building, hollowing, and coiling will be emphasized.

515850 Advanced Ceramics CP **Year 10-12 CTE/VPA** **Meets Requirement "F" or "G" for CSU/UC**
Suggested Course Preparation: Successful completion of Ceramics CP

Description: This course offers the more advanced/experienced ceramics student the challenge to improve on the basic fundamentals, while utilizing the potter's wheel, advanced hand building techniques, sculpture, art history and the opportunity to focus on developing one's creative voice. Students will have the opportunity to focus on wheel thrown pottery or hand built sculpture to further their creative and technical skills. We will also focus on the development of glazes, glaze application, clay bodies, and firing techniques. There will also be emphasis on production pottery and the business side of ceramics.

By taking this course students will begin to create a personal portfolio providing a strong foundation for explorations in AP Art 3D and/or enriching supplemental materials for college applications. Students will have opportunities to show their artwork and are encouraged to enter contests.

**515420 Advanced Band CP
CSU/UC**

Year 9-12 VPA

Meets Requirement "F" or "G" for

Suggested Course Preparation: Proficiency with a band instrument, participation in a mandatory week-long band camp prior to the start of the school year

Description: This course is split into two sections during the year. During the first three months of school, this class works together on the fundamentals of the Sobrato Marching Band's marching and instrumental playing techniques. After the marching season is over, students will work on advancing their understanding of the proper techniques for instrumental performance in a concert band setting. Throughout the year students will be required to participate in performances (band shows, parades, concerts, special events).

**812020 Art and History of Floral Design
CSU/UC**

Year 10-12

CTE/VPA

Meets Requirement "F" or "G" for

Suggested Course Preparation: Satisfactory achievement in previous Agriculture Education Course or teacher recommendation

Description: This class involves the fundamentals of floral design theory, techniques, and skills currently practiced in the floral design industry, including wedding, sympathy, party, holiday, and themed floral designs. Subjects will include applied art principles, cut flower care & handling practices, proper and safe use of florist tools and materials, pricing of floral products, and use of current floral business technology. Skills to be developed include customer relations, consultations, pricing, and use of technology in the industry. Course instruction also includes construction of corsages, floral arrangements, foliage plant items, introductory ornamental horticulture, identification of plants and flowers, professional industry organizations, and career opportunities. Construction and servicing of special events, party, and holiday floral displays are included. In addition, the inter-curricular FFA program supports and enhances the materials covered in the classroom. This includes involvement in FFA activities, planning of an agriculture based project, and keeping accurate records.

812900 Graphics Design CP

Year 11-12

CTE/VPA

Meets Requirement "F" or "G" for CSU/UC

Description: Students will learn design layout, typography, desktop publishing, photo processing and computer graphics in the Pre-Press area; silk screening, xerography and photography in the Press area; and volume paper cutting, hole drilling, comb bindery and automated folding in the Post-Press area.

Other Electives

612755 Journalism/Technical Writing CP **Year 9-12 Electives** **Meets Requirement “G” for CSU/UC**
Suggested Course Preparation: Satisfactory completion of Journalism CP/Technical Writing and instructor approval

Description: Journalism/Technical Writing provides advanced training in writing with emphasis on researching, writing, rewriting and editing material for publication. Students in this course write for and publish Sobrato’s student newspaper and yearbook. Students will learn the computer skills required for modern publishing methods.

812030 Ag Mechanics **Year 10-12 Electives/CTE** **Meets Requirement “G” for CSU/UC**
Suggested Course Preparation: Satisfactory completion of Agriculture Mechanics and/or instructor approval.

Description: Agricultural Welding courses provides students an opportunity to learn the practices and technical practice of welding processes used in agricultural fields. Students will be exposed to mechanical, electrical and thermal power that are associated with the field of agricultural welding. Applied activities develop an understanding and skill development in metal joining and fabrication processes. Instruction will prepare students to select, operate, repair, fabricate and maintain a variety of agricultural machinery and equipment. Processes covered may include: Oxyfuel Cutting/Heating/Welding, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux-cored Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW), Air-carbon Arc Cutting, Plasma Arc Cutting, Safety and Metal Fabrication. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

813310 Food Science **Year 9-12 Electives/CTE** **Meets Requirement “G” for CSU/UC**
Suggested Course Preparation: Satisfactory achievement in previous Agriculture Education Course or Teacher recommendation

Description: This course provides learning experiences in food science and safety which allow students to apply scientific knowledge and processes to practices used in the development and preservation of food products. Issues of food science and safety are examined from a scientific and technological perspective. Students critically analyze information to evaluate and draw conclusions on the appropriate use of technology to implement food science and safety practices. Units of instruction include: principles of food preservation, food processing, biochemistry of foods, and food selection and consumer health. Careers to be examined include meat inspector, quality control technician, food processor, and sanitation supervisor. Students will use scientific and technological information about food science and safety as a part of developing career plans and personal viewpoints on societal issues concerning the development and preservation of food products. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

120350 Leadership/ASB **Year 9-12 Electives**

Description: Students experience working together in teams to run all ASB activities and business. School lunchtime activities, sports and clubs are included.

817501 Veterinary Science Year 11-12 Electives/CTE Meets Requirement "D" or "G" for CSU/UC
Suggested Course Preparation: Satisfactory achievement in previous Agriculture Education Course or teacher recommendation

Description: Veterinary Science courses impart information about the causes, diagnosis, and treatment of diseases and injuries of animals, typically emphasizing domestic and farm animals. Course topics focus on anatomy and physiology, nutrition, behavior, and reproduction, sanitation, and use of veterinary supplies and equipment. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

120900 AVID Year 9-12 Electives Meets Requirement "G" for CSU/UC
(Advancement via Individual Determination)
Suggested Course Preparation: Teacher Identification

Description: AVID is designed to increase the number of students who enroll in four-year colleges. Although AVID serves all students, it focuses on the least served students in the academic middle. AVID raises expectations of students and provides support for their success. AVID students are enrolled in the school's most challenging courses including advanced placement, and receive support in an academic elective class within the school day by a trained AVID teacher and college tutors. AVID students develop academic study skills including note taking, text reading, and using writing as a tool of learning as a basis for all assignments.

812050 Agriculture Sales & Service Year 9-12 Electives/CTE Meets Requirement "D" or "G" for CSU/UC
Suggested Course Preparation: Satisfactory achievement in previous Agriculture Education Course and Teacher approval.

Description: Ag Sales and Marketing courses develop student knowledge and skills in agricultural sales and marketing, commodity marketing, agricultural economics, and international agriculture. Instructional units include: successfully starting an agribusiness, developing a marketing plan, pricing, advertising, and selling products and services, communicating with customers, applying commodity trading techniques, basic economic principles, the international agribusiness economy, and agricultural career opportunities. Student skills will be enhanced in math, reading comprehension, communications, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and SAE projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

812030 Ag Mechanics Year 9-12 Electives/CTE Meets Requirement "G" for CSU/UC
Suggested Course Preparation: Satisfactory achievement in previous Agriculture Education Course, concurrent enrollment in Agriculture Education or Teacher recommendation

Description: Introductory Agricultural Mechanics courses provide theory and hands-on experiences that provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, construction, cold metal work, and operating agricultural equipment safely. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

812000 Horticulture Year 11-12 Electives/CTE Meets Requirement "D" or "G" for CSU/UC

Suggested Course Preparation: Satisfactory achievement in previous Agriculture Education Course or Teacher recommendation

Description: This course exposes students to the art and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. They provide information regarding the care and propagation of plants, flowers, trees, and shrubs, but place a special emphasis on those used for decorative and aesthetic purposes. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils and media mixtures, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed and pest control, and floral design. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

813550 Computer Science Year 9 - 12 Electives/CTE Meets Requirement "G" for CSU/UC

Suggested Course Preparation: Satisfactory achievement in Integrated 1 and some experienced with the use of Windows and Windows Applications.

Description: Students will learn the fundamental concepts and terminology of software application development and develop skills in designing and writing simple computer programs. The course assumes no programming background and provides an overview of the software development process in addition to introducing important programming constructs and methodologies.

816101 AP Computer Science Year 10 - 12 Elective/CTE Meets Requirement "G" for CSU/UC

Suggested Course Preparation: Satisfactory achievement in Integrated 2, familiar with basic computer terms, and experienced with the use of Windows and Windows Applications.

Description: The AP Computer Science A course is an introductory college level course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. Students prepare for the Computer Science AP "A" Exam administered in May by the College Board.

AP Computer Science Principles Year 10-12 Elective/CTE Meets Requirement "G" for CSU/UC

Suggested Course Preparation: This course is meant to be a first time introduction to computer science, and does not require students to come in with any computer programming experience. However, we recommend that students take our Introduction to Computer Science in JavaScript prior to our AP courses. Students who have completed our Intro to CS course will be able to apply knowledge of concepts covered in the Intro course to the more advanced setting of the AP courses. Satisfactory achievement in Integrated Math 2.

Description: This course introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. With a unique focus on creative problem solving and real-world applications, the AP Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field. The entirely web-based curriculum is made up of a series of learning modules that cover the fundamentals of programming. Students will be able to write both text based and block based JavaScript programs, and students will

use Processing.js to create graphical programs. They will also create webpages using HTML, CSS, and JavaScript. Students prepare for the AP Computer Science Principles Exam administered in May by the College Board.

812351 Sports Medicine

Year 11-12 CTE

Meets Requirement "G" for CSU/UC

Description: Sports Medicine is designed for students who are interested in the practical and theoretical aspects of sports injury prevention, recognition, treatment and care of sports-related injuries. Students will study career opportunities, ethical and legal responsibilities, basic anatomy and physiology of the human body, tissue response to injury, emergency procedures, mechanisms of sports injury, basic injury evaluation, physical therapy modalities and exercise, communication skills and career skills development. Students will participate in lab activities and work-based learning involving basic life support training and certification, basic injury evaluation, prophylactic modalities and taping, follow-up care and use of equipment and techniques to aid patients in rehabilitation and case study problem solving.

Physical Education

712400 PE 9

Year 9 Physical Education

Graduation Requirement

Suggested Course Preparation: All 9th grade students are required to take this course as this is a graduation requirement.

Description: Students will demonstrate knowledge and competency in aquatics, dance, and individual/dual movement activities. Students will learn and apply knowledge of fitness principles, take the California Physical Fitness Test, and develop a personal fitness plan for a healthy lifestyle. Students will demonstrate independence while developing positive social skills and learning to set and strive for personal, achievable goals. Students will also learn to assume leadership roles, cooperate with others, and accept responsibility for their own behaviors.

712430 Lifelong Activity

Year 10 - 12 Physical Education

Satisfies 2nd Year Graduation

Requirement

Description: Students will demonstrate knowledge and competency in team activities, combatives, and gymnastics and tumbling. Students participate in challenging physical fitness activities. They will apply knowledge of fitness principles and evaluate fitness resources to help them achieve desired fitness goals. Students will explore personal interests and identify fitness and recreation opportunities for lifelong involvement.

715535 Advanced Body Conditioning

Year 10 - 12 Physical Education/Elective

Satisfies 2nd Year Graduation Requirement

Description: This course is designed to give students the opportunity to learn comprehensive weight training and cardio-respiratory endurance activities and training techniques used for achieving physical fitness. Students will benefit from activities including, but not limited to, step aerobics, aqua aerobics, various types of dance aerobics, cardio kickboxing, yoga, self-defense, and weight resistance training. This course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

715530 Advanced Body Building

Year 10-12 Physical Education/Elective

Satisfies 2nd Year Graduation Requirement

Description: Students will participate in activities designed to improve and maintain muscular strength and endurance, cardiovascular endurance, and flexibility. Students will learn proper lifting and spotting techniques and demonstrate appropriate behavior in the weight room. Students will work in small groups to monitor and achieve challenging personal fitness goals. Students will be formally evaluated by the instructor on a quarterly basis and be responsible for maintaining a personal workout log.

Special Education

919870 World History RSP

Year 10-12 Social Studies

Based on California State Standards, students who meet eligibility criteria for RSP/SDC services will receive modified instruction in basic concepts and precepts surrounding World History, including significant historical characters, places, and events leading to present day.

Description: Major topics include basic geography, study of historical and current countries worldwide, political, agricultural, and economic factors leading to the rise and fall of nations; review of these historical events and how they apply to modern nations today. **(This course satisfies the Social Studies graduation requirement.)**

919830 U.S. History RSP

Year 11-12 Social Studies

Description: Based on California State Standards, students who meet eligibility criteria for RSP/SDC services will receive modified instruction in basic concepts and precepts surrounding the history of the United States. Major topics include the birth of our nation, the Constitution, rise of industry, Imperialism, The Roaring 20s, WWI, The Great Depression, WWII, The Cold War, Vietnam, Civil Rights, and issues and events leading to present day. **(This course satisfies the Social Studies graduation requirement.)**

919880 General Civics

Sem 12 Social Studies

Suggested Course Preparation: Successful completion of CP or Basic U.S. History

Description: Based on California State Standards, students who meet eligibility criteria for RSP/SDC services will receive modified instruction on the major concepts and perspectives in political science and government. Students will be given the opportunity to gain a deeper understanding of the operation of our legal system. Students will participate in experiences designed to develop an appreciation of the ethical beliefs supported by American Society. This course includes mandatory attendance at local civic functions, including city council, planning commission, and board of education meetings. **(This course satisfies the Social Studies graduation requirement.)**

919890 General Economics

Sem 12 Social Studies

Suggested Course Preparation: Successful completion of CP or Basic U.S. History

Description: Based on California State Standards, students who meet eligibility criteria for RSP/SDC services will receive modified instruction on how the free market operates and distributes goods and services. The course will discuss uses of credit, investments, saving and spending strategies of the consumer. Students will learn business axioms of supply/demand, profit motives, finance, and production of goods, economic theory, monetary policy, use and banking. Students will understand concepts of inflation/deflation, employment/unemployment and their effects on the economy. **(This course satisfies the Social Studies graduation requirement.)**

919700 English Skills RSP

Year 9-12 English

Suggested Course Preparation: None

Description: Based on California State Standards, students who meet eligibility criteria for RSP/SDC services will receive modified instruction and intensive remediation in reading and written language skills. Students will practice reading, writing, listening and speaking skills in an integrated, literature-based program that emphasizes

an understanding of the basic elements of English. In addition, students will develop appropriate language and communication skills. **(This course satisfies the English graduation requirement.)**

919600 Math Skills RSP

Year 9-12 Math

Description: Based on California State Standards, students who meet eligibility criteria for RSP/SDC services will receive modified instruction and remediation in basic math concepts necessary to meet individualized math goals and objectives. This course reviews and reinforces the basic operations of addition, subtraction, multiplication, division of whole numbers, fractions, decimals, percentages up to and including pre-Algebra I applications. Practical applications of these math skills are taught as a component of vocational education. **(This course satisfies a Mathematics graduation requirement.)**

919920 Biology RSP

Year 9-12 Life Science

Description: Based on California State Standards, students who meet eligibility criteria for RSP/SDC services will receive modified instruction in basic biological concepts. This course is devoted to scientific vocabulary, fundamental concepts, investigations, experimentation, and processes of our living world. The student is given a systematic and comparative investigation of many representative organisms, from simple to complex, in order to better understand man's place in the environment and ecology of our living planet. In addition, students will learn and discuss the vital role humans play in the stewardship of planet Earth. **(This course satisfies the Science graduation requirement.)**

919980 Physical Science RSP

Year 10-12 Physical Science

Description: Based on California State Standards, students who meet eligibility criteria for RSP/SDC services will receive modified instruction in basic Physical Science concepts. This course reviews scientific vocabulary, investigations, experimentation, and emphasizes a general understanding of physics. It encompasses scientific measurement, energy, magnetism, basic chemistry, the periodic table of elements, compounds, light, sound, and electricity. In addition, students will be given the opportunity to complete hands-on projects to reinforce academic areas covered in this course. **(This course satisfies the Science graduation requirement.)**

919575 Job Success

Year 9-12 Electives

Description: Students who meet eligibility criteria for RSP/SDC services may take this course. This course is specifically designed for students who receive varying degrees of accommodated or modified instruction in mainstream CP academic courses, and who need additional individual/small group instruction to assist with academic coursework, homework, test-taking strategies, and study skills as specified on their individualized education program plans (IEPs).

