



# *Course Catalog*

*2020-2021*

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Dear Tracy High Families,

Welcome to another incredible year at Tracy High School. Before you begin planning your courses for the next school year, we want to remind you to please choose courses carefully. Transcripts, prerequisites and the student's four-year plan should be reviewed prior to final selection. Because the master schedule is built based on student course requests and classes are planned at maximum capacity, schedule changes are rarely able to be accommodated. Students will register for courses online through their Aeries Portal. Please make sure students/parents have access to their Aeries Portal. If you do not have access, please see the Attendance Office or the Counseling Secretary to receive your Aeries access information. Counselors will still be meeting with students to review course selections and progress towards graduation. We wish you lots of success in courses. Do not forget to check out the Counseling Department webpage for important announcements and events.

Have a great year,

Tracy High School Counseling Department

209-830-3360 Ext. 2002

<https://tracyhigh.tracy.k12.ca.us/academics-programs/counseling>



# HS Graduation Requirements vs. 4-yr College Entrance Requirements

Subject Requirement	Tracy High	Colleges/Universities
History	3 years	2 years
English	4 years	4 years
Mathematics	2 years (including Algebra)	3 years (4 yrs. recommended)
Science**	3 years (including Biology)**	2 years (Lab sciences, 3 yrs. recommended)
Foreign Language	1 year *	2 years (3 years recommended)
Visual/Performing Arts	1 year *	1 year
Phys. Ed.	2 years	none
Electives	70 credits minimum	1 year (must be a-g approved)

\*TUSD requires 1 year of foreign language OR 1 year of art for graduation.

\*\*Class of 2022 and beyond are required to take Biology, Physics, & Chemistry

## 220 Credits are required for Graduation

### 4 YEAR PLAN WORKSHEET TRACY HIGH SCHOOL

Fill out this worksheet with courses you plan to take while at THS. To fulfill A-G requirements you must earn a grade of C or better. You may take more than the minimum number of courses required.

9 <sup>TH</sup> GRADE	10 <sup>TH</sup> GRADE	11 <sup>TH</sup> GRADE	12 <sup>TH</sup> GRADE
English	English	English	English
Math	Math	(Math)	(Math)
Biology	Chemistry or Physics	Chemistry or Physics	(Science)
Core 9 PE	PE	Elective	Elective
Art or Foreign Lang	World History	U.S History	Gov/Econ
Elective	Elective	Elective	Elective

## Typical 4-year Course Sequence

The course sequence below depicts a typical student taking six courses each semester. Please note that this is not a reflection of any specific program offered at THS. Many students will decide to take additional/different courses depending on their academic/career goals.

### 9<sup>th</sup> Grade / Freshman Year

1. English 1
2. Math (Algebra 1 or higher)
3. Biology
4. Core 9 PE
5. Elective
6. Elective

### 11<sup>th</sup> Grade / Junior Year

1. English 3
2. US History
3. Chemistry or Physics
4. Elective
5. Elective
6. Elective

### 10<sup>th</sup> Grade / Sophomore Year

1. English 2
2. Math (Geometry or higher)
3. Chemistry or Physics
4. World History
5. Advanced PE
6. Elective

### 12<sup>th</sup> Grade / Senior Year

1. English 4
2. Government/Economics
3. Elective
4. Elective
5. Elective
6. Elective

## Grade Point Average (GPA)

Grade Point Average is calculated using the student's Semester grades, as following:

- A = 4.0** (Honors/AP/IB Weighted GPA A = 5.0)  
**B = 3.0** (Honors/AP/IB Weighted GPA A = 4.0)  
**C = 2.0** (Honors/AP/IB Weighted GPA A = 3.0)  
**D = 1.0** (Honors/AP/IB Weighted GPA A = 1.0)  
**F = 0.0**

Tracy High lists three types of GPAs on our transcripts For the follow purposes:

**Academic GPA 9-12:** calculated using grades earned in all courses from grade 9 to grade 12, both weighted and non-weighted.

**Academic GPA 10-12:** calculated using grades earned in all courses from grade 10 to grade 12, both weighted and non-weighted.

**Total GPA 9-12:** calculated using grades earned in all courses from grade 9 to grade 12, both weighted and non-weighted. This GPA is used to determine eligibility for graduation and participation in athletic programs.

**UC/CSU A-G Weighted GPA:** calculated using grades in only "a-g" courses during grades 10 to 12. This GPA is used to determine college eligibility. It is important to note that the UC/CSU system recalculates GPA for admissions differently. Please note that "a-g" courses that are taken in 9<sup>th</sup> grade are also integral as they are part of the minimum requirements necessary for UC/CSU eligibility.

### Repeating Courses

Students may at some point need to repeat a course for purposes of meeting high school graduation requirements or to meet college eligibility requirements. Once the repeated course is completed, both the initial grade and the repeated grade will appear on the student's transcript. Credit from the initial course will be removed, as credit is only allowed once per course. When a course is being repeated during the school year, you must consider the loss of credit when calculating credit requirements for graduation. Courses can be repeated during summer school, during the school year (with some exceptions), or online (with some exceptions).

## UC Requirements

See details: [admission.universityofcalifornia.edu](https://admission.universityofcalifornia.edu)



### Grade Point Average

Students must earn at least a 3.0 GPA in all "a-g" or college-preparatory courses to meet this requirement. The University calculates GPA by converting grades earned in all "a-g" courses completed between summer after 9th grade through summer after 11th grade to grade points: A=4 points, B=3 points, C=2 points, D=1 points. (Pluses and minuses don't count.) Then the grade point totals are divided by the number of "a-g" courses taken in 10<sup>th</sup> and 11<sup>th</sup> grade.

Extra points for honors/AP/IB courses is of high interest to students. UC allows an extra point for each semester of a UC honors-level course, with a maximum of 8 points between 10th and 11th grades.

- For 10th grade, you cannot use more than 4 honors points.
- Classes taken during the summer after 9th grade count as

10th grade; classes in summer after 10th grade count as 10th grade; classes in summer after 11th grade count as 11th grade. Honors courses are Advanced Placement courses, International Baccalaureate Higher Level and designated Standard Level courses, UC-transferable college courses and UC-certified honors courses that appear on [your school's course list](#).

To be considered for admission, you must complete 15 yearlong high school courses with a grade of C or better — at least 11 of them prior to your senior year.

### Examinations Requirement

Students must take their ACT/SAT exams no later than December of their senior year. Taking the exams early ensures that your application receives prompt and full consideration. It is unlikely that scores from tests taken after our December deadline will arrive to the University in time for the review process. For more information, visit the websites below:

ACT: [www.actstudent.org](http://www.actstudent.org)

SAT: [sat.collegeboard.org](http://sat.collegeboard.org)

### AP, IB and SAT Subject Tests

It is recommended that students who complete Advanced Placement courses complete the related AP examination to demonstrate subject mastery. Similarly, International Baccalaureate scores and scores from SAT Subject Tests can be used to showcase academic mastery. In order to receive unit credit toward the baccalaureate degree, you must submit an official copy of your AP or IB scores directly from the testing agency. This can be done in the summer following high school graduation.

### Eligibility in Local Context (ELC)

Students who rank in the top 9% of their graduating class based on their UC/CSU Weighted GPA (GPA of 3.0+ and completion of at least 11 "a – g" courses prior to starting their senior year) are eligible for admission to the UC through the ELC program - a partnership set up between the UC System and California high schools. This early evaluation and admission occurs during the summer leading to the students' senior year. To remain eligible, students must fulfill all general admission requirements.

## CSU Requirements

See details: <https://www2.calstate.edu/apply/eligibility-index>



### Grade Point Average

The CSU system uses an eligibility index that combines a student's GPA with their SAT or ACT score. Students must complete the "a-g" requirements with a grade of "C" or better.

### Eligibility

CSU Admission offices consider 3 main factors to determine a student's eligibility:

- Graduation from high school
- Completion & grades in "a-g" courses
- Scores on SAT/ACT test

Many CSU campuses utilize local admission guarantee policies for students that attend schools in areas that are served by their local CSU campus. For more details, visit the CSU Mentor website.

# Tracy High “a-g” Courses

Please visit:

<https://hs-articulation.ucop.edu/agcourselist/institution/2107>

Tracy High School “a-g”

## a History/Social Science

World History  
World History ELL  
Advanced World History  
Ag/Sci Adv. SS2 – World History  
U.S. History  
U.S. History ELL  
Ag/Science U.S. History  
History IB HL1  
Amer Govt/Econ  
Amer Govt/Econ ELL  
Ag/Sci Amer Govt/Econ  
History IB HL2

## c Mathematics

Algebra 1  
Algebra 1 W/Support  
Algebra 1 ELL  
Geometry  
Geometry ELL  
Algebra 2  
Advanced Algebra 2  
Advanced Math  
Pre-Calculus (Honors)  
AP Calculus AB  
AP Calculus BC  
AP Statistics

## e Language Other than English

French 1  
French 2  
French IB HL1  
French IB HL2  
French 5  
Spanish 1  
Spanish 2  
Spanish IB HL1  
Spanish IB HL2  
Spanish 5  
Spanish for Native Speakers 1  
Spanish for Native Speakers 2



## b English

English 1  
Advanced English  
Ag/Sci Advanced English 1  
English 2  
Advanced English 2  
Ag/Sci Advanced English 2  
English 3  
Ag/Sci English 3  
English IB HL1  
English 4  
English IB HL1  
English 4  
Ag/Sci English 4  
Expository Reading & Writing  
English IB HL2

## d Laboratory Science

Biology  
Biology Ag  
Biology ELL  
Enhanced Biology  
Enhanced Biology Acad  
Biology IB HL1  
Biology IB HL2  
Environmental Systems IB SL  
Chemistry  
Chemistry Ag  
Chemistry IB SL  
Environmental Systems IB HL2  
Enhanced Chemistry  
Enhanced Chemistry Acad  
Human Physiology  
Human Physiology ELL  
Physics  
Physics ELL  
Physics IB SL

## f Visual & Performing Arts

Introduction to Art  
Piano Keyboarding  
Intermediate Art  
Advanced Piano  
Art 3  
Symphonic Band  
Art 4  
Concert Band  
Drama 1  
Orchestra  
Advanced Drama  
Concert Choir  
Film Studies  
Choral Company  
Madrigals

## g College-Preparatory Elective

AVID (9-12)  
Earth Science  
Earth Science ELL  
Maker Space  
Am. Govt/Econ ELL  
Animal Physiology  
AP Computer Science A  
Biotechnology  
Child Development  
Freshman Seminar  
Ag/Sci Adv SS1 World Geography  
Veterinary Science  
Consumer Home Economics  
Economics  
Intro to Psychology  
Philosophy IB SL  
Psychology IB SL  
Social & Cultural Anthology IB SL  
Speech & Debate  
Theory of Knowledge IB  
Yearbook Design

### Please note:

All courses must be passed with a grade of “C” or better in order to meet minimum requirements. For UC Admissions, at least 11 of the 15 minimum required classes must be completed by the end of 11<sup>th</sup> grade.

# NCAA & NAIA REQUIREMENTS

See details: [www.eligibilitycenter.org](http://www.eligibilitycenter.org)

## The NCAA

Student athletes who are interested in playing NCAA Division I or Division II sports in college must register with the National Collegiate Athletic Association (NCAA) Eligibility Center. Students who would like to play to Division III sports do not need to register. The Eligibility Center determines if prospective college athletes are eligible to play Division I and Division II sports at participating institutions of higher education. Meeting NCAA requirements does not guarantee admission into college nor does it guarantee students placement on a Division I or Division II athletic team.

### Registration with NCAA

It is recommended that student athletes register online at the beginning of their junior year in high school. However, many students will register before their junior year. Students must be cleared by the Eligibility center before they can compete at a Division I or Division II institution or receive athletic scholarships.

Students must create an account online with the NCAA Eligibility Center. Students will create a personal profile and pay a registration fee. Student who have received a waiver for the SAT or ACT are eligible for a registration fee waiver. The student's counselor must submit confirmation of the test fee waiver. **Submission of final transcripts, SAT and/or ACT scores, and proof of graduation at the end of senior year is the student's responsibility.**

### Coursework Requirements

To play Division I or Division II sports, students must:

- Complete a certain number of high school core courses (see course list)
- Earn a certain minimum grade point average in core courses (see [www.eligibilitycenter.org](http://www.eligibilitycenter.org))
- Earn a certain minimum score on the SAT and/or ACT (see [www.eligibilitycenter.org](http://www.eligibilitycenter.org))
- Graduate from high school

\*NCAA & NAIA Differ from UC/CSU Eligibility Requirements.



### Division I (16 core courses)

- 4 years of English
- 3 years of Math (Algebra 1 or higher)
- 2 years of Science (Natural or physical, including 1 year of lab science)
- 2 years of Social Science
- 1 extra year of English, Math or Science
- 4 years of additional core courses (from any category above, foreign language, or philosophy)

### Division II (16 core courses)

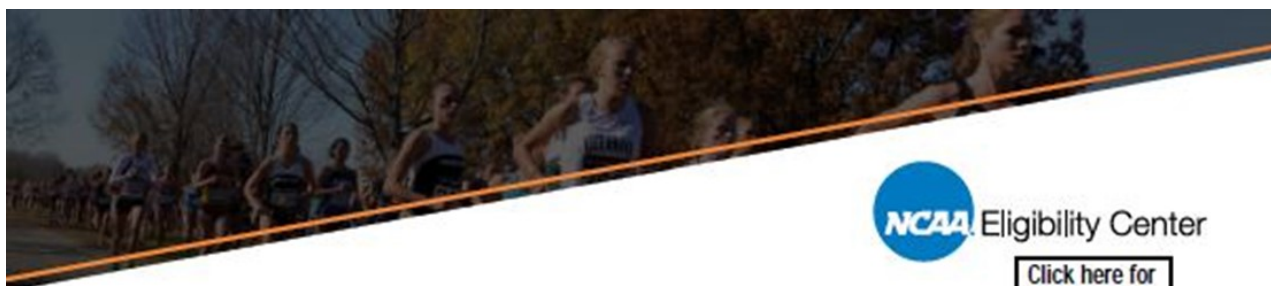
- 3 years of English
- 2 years of Math (Algebra 1 or higher)
- 2 years of Science (Natural or physical, including 1 year of lab science)
- 2 years of Social Science
- 3 extra year of English, Math or Science
- 4 years of additional core courses (from any category above, foreign language, or philosophy)



## The NAIA

The National Association of Intercollegiate Athletics (NAIA) is an association that partners with small athletics programs that are "dedicated to character-driven intercollegiate athletics." Registration with the NAIA Eligibility Center is required for any student who plans to attend an NAIA school.

<http://www.playnaia.org/>



Click here for  
DII Academic  
Requirements

## DIVISION I ACADEMIC REQUIREMENTS

College-bound student-athletes will need to meet the following academic requirements to practice, receive athletics scholarships, and/or compete during their first year.

### Core-Course Requirement

Complete 16 core courses in the following areas:

<b>ENGLISH</b>	<b>MATH</b> (Algebra I or higher)	<b>NATURAL/ PHYSICAL SCIENCE</b> (including one year of lab, if offered)	<b>ADDITIONAL</b> (English, math, or natural/physical science)	<b>SOCIAL SCIENCE</b>	<b>ADDITIONAL COURSES</b> (Any area listed to the left, foreign language or comparative religion/philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

### Full Qualifier

- Complete 16 core courses.
  - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
  - Seven of the 10 core courses must be in English, math or natural/physical science.
- Earn a core-course GPA of at least 2.300.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

### Academic Redshirt

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

### Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division I school.

### Academic Redshirt:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

### Nonqualifier:

College-bound student-athletes cannot practice, receive athletics scholarships or compete during their first year of enrollment at an NCAA Division I school.

**International Students:** Please visit [ncaa.org/international](http://ncaa.org/international) for information and academic requirements specific to international student-athletes.

## Test Scores

When a student registers for the SAT or ACT, he or she can use the NCAA Eligibility Center code of **9999** so his or her scores are sent directly to the NCAA Eligibility Center from the testing agency. Test scores on transcripts will **NOT** be used in his or her academic certification.

A combined SAT score is calculated by adding reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. A student may take the SAT or ACT an unlimited number of times before he or she enrolls full time in college. If a student takes either test more than once, the best subscores from each test are used for the academic certification process.

If you took the SAT in March 2016 or after, and plan to attend an NCAA Division I college or university in the 2018-19 or 2019-20 academic years, use the following charts to understand the core-course GPA you need to meet NCAA Division I requirements.

For more information on the SAT, click [here](#) to visit the College Board's website.

DIVISION I FULL QUALIFIER SLIDING SCALE			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.550	400	400	37
3.525	410	410	38
3.500	430	420	39
3.475	440	430	40
3.450	460	440	41
3.425	470	450	41
3.400	490	460	42
3.375	500	470	42
3.350	520	480	43
3.325	530	490	44
3.300	550	500	44
3.275	560	510	45
3.250	580	520	46
3.225	590	530	46
3.200	600	540	47
3.175	620	550	47
3.150	630	560	48
3.125	650	570	49
3.100	660	580	49
3.075	680	590	50
3.050	690	600	50
3.025	710	610	51
3.000	720	620	52
2.975	730	630	52
2.950	740	640	53
2.925	750	650	53
2.900	750	660	54
2.875	760	670	55
2.850	770	680	56
2.825	780	690	56
2.800	790	700	57
2.775	800	710	58

DIVISION I FULL QUALIFIER SLIDING SCALE			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
2.750	810	720	59
2.725	820	730	60
2.700	830	740	61
2.675	840	750	61
2.650	850	760	62
2.625	860	770	63
2.600	860	780	64
2.575	870	790	65
2.550	880	800	66
2.525	890	810	67
2.500	900	820	68
2.475	910	830	69
2.450	920	840	70
2.425	930	850	70
2.400	940	860	71
2.375	950	870	72
2.350	960	880	73
2.325	970	890	74
2.300	980	900	75
2.299	990	910	76
2.275	990	910	76
2.250	1000	920	77
2.225	1010	930	78
2.200	1020	940	79
2.175	1030	950	80
2.150	1040	960	81
2.125	1050	970	82
2.100	1060	980	83
2.075	1070	990	84
2.050	1080	1000	85
2.025	1090	1010	86
2.000	1100	1020	86

ACADEMIC REDSHIRT

\*Final concordance research between the new SAT and ACT is ongoing.

NCAA is a trademark of the National Collegiate Athletic Association.



## 2018 DIVISION II NEW ACADEMIC REQUIREMENTS

College-bound student-athletes first enrolling at an NCAA Division II school on or after Aug. 1, 2018, need to meet new academic rules to practice, compete and receive athletics scholarships during their first year.

### Core-Course Requirement

Complete 16 core courses in the following areas:

<b>ENGLISH</b>	<b>MATH</b> (Algebra I or higher)	<b>NATURAL/ PHYSICAL SCIENCE</b> (including one year of lab, if offered)	<b>ADDITIONAL</b> (English, math, or natural/physical science)	<b>SOCIAL SCIENCE</b>	<b>ADDITIONAL COURSES</b> (Any area listed to the left, foreign language or comparative religion/philosophy)
3 years	2 years	2 years	3 years	2 years	4 years

### Full Qualifier

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.200.
- Earn the ACT/SAT score matching your core-course GPA on the Division II full qualifier sliding scale (see back page).
- Graduate high school.

### Partial Qualifier

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division II partial qualifier sliding scale (see back page).
- Graduate high school.

### Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

### Partial Qualifier:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

### Nonqualifier:

College-bound student-athletes may not practice, compete or receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

**International Students:** Please visit [ncaa.org/international](http://ncaa.org/international) for information and academic requirements specific to international student-athletes.

## Test Scores

If you took the SAT in March 2016 or after, and plan to attend an NCAA Division II college or university in the 2018-19 or 2019-20 academic years, use the following charts to understand the core-course GPA you need to meet NCAA Division II requirements.

A combined SAT score is calculated by adding reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. You may take the SAT or ACT an unlimited number of times before you enroll full time in college. If you take either test more than once, the best subscores from each test are used for the academic certification process.

For more information on the SAT, click [here](#) to visit the College Board's website.

DIVISION II FULL QUALIFIER SLIDING SCALE			
USE FOR DIVISION II BEGINNING AUGUST 2018			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.300 & above	400	400	37
3.275	410	410	38
3.250	430	420	39
3.225	440	430	40
3.200	460	440	41
3.175	470	450	41
3.150	490	460	42
3.125	500	470	42
3.100	520	480	43
3.075	530	490	44
3.050	550	500	44
3.025	560	510	45
3.000	580	520	46
2.975	590	530	46
2.950	600	540	47
2.925	620	550	47
2.900	630	560	48
2.875	650	570	49
2.850	660	580	49
2.825	680	590	50
2.800	690	600	50
2.775	710	610	51
2.750	720	620	52
2.725	730	630	52
2.700	740	640	53
2.675	750	650	53
2.650	750	660	54
2.625	760	670	55
2.600	770	680	56
2.575	780	690	56
2.550	790	700	57
2.525	800	710	58
2.500	810	720	59
2.475	820	730	60
2.450	830	740	61
2.425	840	750	61
2.400	850	760	62
2.375	860	770	63
2.350	860	780	64
2.325	870	790	65
2.300	880	800	66
2.275	890	810	67
2.250	900	820	68
2.225	910	830	69
2.200	920	840 & above	70 & above

DIVISION II PARTIAL QUALIFIER SLIDING SCALE			
USE FOR DIVISION II BEGINNING AUGUST 2018			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.050 & above	400	400	37
3.025	410	410	38
3.000	430	420	39
2.975	440	430	40
2.950	460	440	41
2.925	470	450	41
2.900	490	460	42
2.875	500	470	42
2.850	520	480	43
2.825	530	490	44
2.800	550	500	44
2.775	560	510	45
2.750	580	520	46
2.725	590	530	46
2.700	600	540	47
2.675	620	550	47
2.650	630	560	48
2.625	650	570	49
2.600	660	580	49
2.575	680	590	50
2.550	690	600	50
2.525	710	610	51
2.500	720	620	52
2.475	730	630	52
2.450	740	640	53
2.425	750	650	53
2.400	750	660	54
2.375	760	670	55
2.350	770	680	56
2.325	780	690	56
2.300	790	700	57
2.275	800	710	58
2.250	810	720	59
2.225	820	730	60
2.200	830	740	61
2.175	840	750	61
2.150	850	760	62
2.125	860	770	63
2.100	860	780	64
2.075	870	790	65
2.050	880	800	66
2.025	890	810	67
2.000	900	820 & above	68 & above

\*Final concordance research between the new SAT and ACT is ongoing.

NCAA is a trademark of the National Collegiate Athletic Association.

If you would like to study with like-minded students, you may elect to join one of our three academies.



### International Baccalaureate (IB) Academy

The International Baccalaureate Academy is opened to ALL motivated students who are interested in a university education. This academy offers a comprehensive and rigorous curriculum that meets internationally recognized standards. The primary objective of the IB Academy is to provide students with a balanced integrated curriculum in all academic areas. IB students may earn college credit by taking examinations at the end of their junior and/or senior year. The student who excels in the program demonstrates a strong commitment to learning and develops the discipline necessary to succeed in college. Tracy High School was the 3<sup>rd</sup> high school in California to be approved by the IBO and is one of 99 recognized International Baccalaureate high schools in California. IB coursework fulfills the state requirements for high school graduation and is A-G approved for University of California and California State

### Performing Arts Academy

The Performing Arts Academy is an honorary, academic program for ALL students who wish to earn recognition for their commitment to studying the arts. The instructional program offers an enriched curriculum, preparing students for further study at post-secondary institutions and entry-level career options in the arts and entertainment industry. There are many ways you may personalize your experience with different performance pathways to reach your personal goals.

### Agricultural/Scientific Academy

The Ag/Sci Academy is designed as an alternative program option for students with a strong interest in science or agriculture. The Academy also helps students explore undecided career options. The goal of the Ag/Sci Academy is to help students meet their individual educational goals. Application and selections is required to enroll in the Academy. This is a 4 year program and students are not usually admitted after freshmen year. Contact the coordinator for information if you are interested in entering the Academy.

# Course List

## \*NCAA Approved Courses

English Courses	
0230	Freshman Seminar
1003	English 1*
1010	Adv English 1*
1017	Ag/Science Adv. English 1*
1133	English 2*
1120	Adv English 2*
1145	Ag/Science Adv. English 2*
1263	English 3*
1260	Ag/Science Adv. English 3*
1223	English IB HL1*
1383	English 4*
1390	Ag/Science Adv. English 4*
1283	Expo Reading & Writing*
6061	Speech & Debate

English Language Development Courses	
1203	Beginning ELD
0208	Newcomer ELD
0207	ELD 9
0206	ELD 10
0205	ELD 11
0204	ELD 12

Mathematics Courses	
2065	Algebra Readiness
2067	Algebra Readiness ELL
2052	Algebra 1
2070	Algebra 1 ELL
2042	Algebra 1 w/Support
0600	Algebra Support
2103	Geometry
2106	Geometry ELL
2093	Algebra 2
2100	Adv Algebra 2
2040	Adv Math
2131	Pre-Calculus
2133	AP Calculus AB
2136	AP Calculus BC
3317	AP Computer Science

Science Courses	
3136	Biology*
3153	Biology ELL*
3163	ENH Biology*
3094	ENH Biology, Acad*
3105	Biology, Ag*
3335	Biology IB HL1*
3337	Biology IB HL2*
3266	Chemistry*
3294	ENH Chemistry*
3374	ENH Chemistry, Acad*
3188	Chemistry, Ag*
3287	Chemistry IB SL*
3021	Earth Science (11 <sup>th</sup> & 12 <sup>th</sup> only)*
3032	Earth Science ELL*
3330	Physics*
3311	ENH Physics*
3305	Conceptual Physics ELL*
3323	Physics IB SL*
2103	Human Physiology *
3205	Human Physiology ELL*
3055	Environmental Systems & Societies IB SL*
3200	Lab Research in Biotechnology

Social Studies Courses	
7001	Ag/Sci Geography
7103	World History CP*
7135	World History ELL*
7111	Adv World History*
7107	Ag/Sci Adv World History*
7253	US History*
7286	US History ELL*
7263	Ag/Sci US History*
7254	History of the Americas IB HL1*
7355	History of the Americas IB HL2*
7340	Intro to Psychology*
7351	Psychology IB SL*
7357	Philosophy IB SL*
1235	Social & Cultural Anthropology IB SL*
7287	Theory of Knowledge IB (H) 11 <sup>th</sup> *
7384	Theory of Knowledge IB (H) 12 <sup>th</sup> *

Physical Education Courses	
9001	Core 9 PE
9101	Advanced PE
9420	Weight Training
9400	Comp Weight Training
9201	Aerobics

Fine Arts Courses	
6002	Introduction to Art
6004	Intermediate Art
6005	Advanced Art 3
6006	Advanced Art 4
6090	Concert Band
6073	Marching Band
6093	Symphonic Band
6103	Orchestra
6113	Jazz Ensemble
6143	Concert Choir
6123	Choral Company
6144	Madrigals
6100	Piano Keyboard
6095	Advanced Piano
6099	Piano Accompanist
6042	Drama 1
6053	Advanced Drama
6035	Film Studies
3067	Technical Theatre

Modern Language Courses	
4013	French 1*
4023	French 2*
4233	French IB HL1*
4143	French IB HL2*
4350	French 5*
4033	Spanish 1*
4153	Spanish 2*
4273	Spanish HL1*
4383	Spanish HL2*
4393	Spanish 5*
4103	Spanish for Native Speakers 1*
4053	Spanish for Native Speakers 2*

Home Economics Courses	
5501	Life Management/Consumer Home Economics
5450	Child Development
5400	Child Development & Education 1 (2 hour)
5410	Child Development & Education 2 (2 hour)
5553	Food Education & Service Training FEAST 1 (2 hour)
5563	Food Education & Service Training FEAST 2 (2 hour)

Agriculture Courses	
5331	Small Animals & Horses
5313	Shop Skills 1
5314	Shop Skills 2
5343	Landscape Management (2 hour)
5393	Meat Processing (2 hour)
5363	Welding
5103	Wood 1
3135	Animal Physiology*
3110	Veterinary Science
3109	CTE Vet Skills
3114	Forestry and Wildlife
3520	Floriculture II
5331	Small Animals & Horses
5313	Shop Skills 1

Non Departmental Courses	
1363	Journalism
8460	Leadership
6031	Yearbook Design
2720	Maker Space
TBD	Work Experience
	Lab Assistant
	Teacher Assistant
0102	Academic Decathlon
0110	AVID 9
0210	AVID 10
0310	AVID 11
0410	AVID 12
8130	AVID Tutoring
5311	Saturday Scholars Seminar
5308	Ag/Science Junior Project
5309	Ag/Science Senior Project

Special Education Courses	
8231	ACC English*
8200	ACC Tutorial Support
8280	SDC Survival Reading
8281	SDC Survival Math
3128	SDC Survival Science
8275	SDC Fine Arts & Leisure Skills
8265	SDC Life Skills
8250	Mod Math
8252	Mod Algebra



## **FRESHMAN SEMINAR - 0230**

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g elective

**Prerequisite:** None

This course is broken up into two semesters. The first semester is designed to support a successful transition into high school and ultimately into adulthood. Students learn and practice valuable skills to help them to be career and college ready. Students will demonstrate their understanding of career paths through a variety of assessments, projects, research assignments, online portfolio, and a budget project. Students will identify academic interests, skills, values and personality types, research employers and industries, familiarize themselves with college and job search tools, strengthen writing skills, and learn goal setting techniques that are monitored by the instructor. In the second semester, students will study Speech and Debate in order to prepare them for the speaking and listening requirements in all English courses, as well as in many other academic classes. During this part of the class students will learn expository, persuasive, extemporaneous, demonstrative and impromptu speaking as well as listening skills, current events, oratory, oral interpretation, memorization and debate. The speech assignments will be thematic and support the concepts introduced in the first semester course.

## **ENGLISH 1 P - 1003**

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** None

This course will include orientation and instruction in college preparatory language art skills including spelling, vocabulary, composition, grammar, reading, and speaking. Study skills and library skills will be reviewed and practiced. Essay writing will be emphasized. This course will provide the necessary skills for more advanced work. Students may expect homework 3-4 nights per week.

## **ADVANCED ENGLISH 1 - 1010**

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** 8<sup>th</sup> grade English teacher recommendation.

This course begins a four-year sequence intended for academically able students with well-established reading and writing skills who desire rigorous preparation for university level work. Students will develop skills in reading critically the major types of literature; in performing, listening to, and evaluating oral presentations; in writing effectively and critically for various audiences and purposes; in developing oral and written commentary skills; in thinking critically about material presented; and in developing an appreciation and tolerance of other cultures and of ideas different from those held by the student through a critical study of relevant literature. Students may expect homework daily.

## **Ag/Science ADVANCED ENGLISH 1 - 1017**

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** Acceptance into the Ag/Science Academy.

The course introduces technology for research, production, and presentation. Reading, writing, listening, speaking and critical thinking skills are developed as students will be trained to do research using library and electronic sources. Students will do essay writing, team projects, and oral presentations. The course will be taught using cooperative learning techniques while fostering individual experience.

## **ENGLISH 2 P - 1133**

Grade Level: 10

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** None

This course is literature-based to help students understand and appreciate critical values represented in the various literary genres: novels, plays, short stories, essays, myths and poetry. The major goals of the course are to develop an appreciation of various aspects of human nature and human relationships by exploring various themes in literature, to improve students' reading, listening and speaking abilities by studying, analyzing, and discussing the major themes; and to improve students' writing abilities.

## **ADVANCED ENGLISH 2 - 1120**

Grade Level: 10

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** Grade C or better in 9th grade Advanced English 1 and teacher recommendation.

This course will expand and strengthen the skills developed at the 9th grade level. Reading, writing and speaking skills will be integrated into a literature-based program. Students may expect homework daily.

## **Ag/Science ADVANCED ENGLISH 2 - 1145**

Grade Level: 10

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** Completion of 9<sup>th</sup> grade Ag/Science Academy classes.

This course is the same course in content to English 2 CP. The course is an interdisciplinary approach to literature and World History. The units of instruction for this course and the World History Ag/Science course have common objectives, common themes, common skills, and common teaching time frames. Students in Ag/Science English 2 will concentrate on reading, writing, listening, and speaking skills throughout the year. Students also complete a portfolio representing their 2 years in the academy.

## ENGLISH 3 P - 1263

Grade Level: 11

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** None

This course offers further development and refinement of the language arts skills previously practiced. Writing, reading, vocabulary, and speaking skills are thoroughly integrated in a strong literature-based program emphasizing speaking and essay writing. Students will also complete a job application, cover letter and resume for their district assessment. Students may expect four nights of homework per week.

## Ag/Science ENGLISH 3 P - 1260

Grade Level: 11

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** Completion of 10<sup>th</sup> grade Ag/Science Academy classes.

This course is the same course in content to English 3 CP. This college acceptable course offers further development and refinement of the language arts skills previously practiced. Writing, reading, vocabulary, and speaking skills are thoroughly integrated in a strong literature-based program emphasizing speaking and essay writing. Students will also complete a job application, cover letter and resume for their district assessment. Students enrolled in the Academy will begin their Senior Project and complete their Job Shadowing through this course.

## ENGLISH IB HL 1 - 1223

Grade Level: 11

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** Grade C or better in 10th grade Advanced English and teacher recommendation.

This course begins the two-year International Baccalaureate program, which dictates the curriculum and literature to be studied as well as the assessments. The course offers further development and refinement of speaking, writing, reading and critical thinking skills.

## ENGLISH 4 - 1383

Grade Level: 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** None

This course meets college requirements. Students will review and practice the major forms of discourse through integrated, literature-based units of study emphasizing reading, essay writing, and speaking skills and vocabulary.

## Ag/Science ENGLISH 4 P - 1390

Grade Level: 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** Completion of Ag/Science Eng. 3 or English HL1.

This course is the same course in content to English 4 CP. Students will review and practice the major forms of discourse through integrated, literature-based units of study emphasizing reading, essay writing, and speaking skills and vocabulary. This course is also a component in the final phase of the Ag/Science Academy. Students will choose a project that is an extension of their junior paper, collect and record data on the project, and finally give a formal presentation of their results. The research paper, project documentation, and project results will be compiled into a professional portfolio.

## EXPOSITORY READING AND WRITING - 1283

Grade Level: 12

Course Length: 1 year

Credit: 10 credits; Meets the English 4 credit requirement for graduation, if successfully completed.

UC/CSU Category: b-English

**Prerequisite:** Grade C or better in English 3 and teacher approval.

The goal of the Expository Reading and Writing course is to prepare college-bound seniors for the literacy demands of higher education. Through a sequence of 14 rigorous instructional modules, students in this yearlong, rhetoric-based course develop advanced proficiency in expository, analytical, and argumentative reading and writing. Modules also provide instruction in research methods and documentation conventions. Students will read closely to examine the relationship between an author's argument or theme and his or her audience and purpose; to analyze the impact of structural and rhetorical strategies; and to examine the social, political and philosophical assumptions that underlie the text.

## ENGLISH IB HL 2 - 1394

Grade Level: 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: b-English

**Prerequisite:** Grade C or better in 11th grade English IB HL1 and teacher recommendation.

This course completes the two-year International Baccalaureate program. This course offers further development and refinement of speaking, writing, reading and critical thinking skills.

## SPEECH AND DEBATE - 6061

Grade Level: 9, 10, 11, 12

Course Length: 1 year

UC/CSU Category: g-Elective

**Prerequisite:** None

This course is an introduction to public speaking. Emphasis is placed on the preparation and presentation of effective oral communication. Students develop confidence, poise, and fluency as they study the principles of expository and persuasive speaking in both theory and practice.

# English Language Development (ELD) Courses

*Placement must be recommended/approved by the coordinator for services to English learners.*

## **Newcomer - 0208**

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits;

**Prerequisite:** Identified English learners who are at the beginning level of English Language Development.

This course is designed for English learners who are new to the English language. It develops all areas of language: listening, speaking, reading, and writing. Emphasis is on vocabulary development and appropriate grammar development.

## **BEGINNING ELD -1203**

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

**Prerequisite:** Identified English learners

This course provides support for the development of reading, writing, listening, and oral communication skills.

## **ELD 9 - 0207**

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

**Prerequisite:** Identified English learners

This course provides support for the development of reading, writing, listening, and oral communication skills.

## **ELD 10 - 0206**

Grade Level: 10

Course Length: 1 year

Credit: 10 credits

**Prerequisite:** Identified English learners

This course provides support for the development of reading, writing, listening, and oral communication skills.

## **ELD 11 - 0205**

Grade Level: 9

Course Length: 1 year

Credit: 11 credits

**Prerequisite:** Identified English learners

This course provides support for the development of reading, writing, listening, and oral communication skills.

## **ELD 12 - 0204**

Grade Level: 12

Course Length: 1 year

Credit: 10 credits

**Prerequisite:** Identified English learners

This course provides support for the development of reading, writing, listening, and oral communication skills.

*All students should take math every year. It is particularly important that students take a mathematics course in their senior year of high school, even if they have completed three years of college preparatory mathematics by the end of their junior year.*

## **ALGEBRA READINESS - 2065**

Grade Level: 9, 10, and 11 or higher with teacher recommendation

Course Length: 1 year

Credit: 10 credits towards math requirement, does not satisfy Algebra requirement

UC/CSU Category: None

**Prerequisite:** Student must meet at least 2 of 3 criteria: 8th grade math grade of F or D; 7th grade CAASPP Math score 1 or 2; MDTP High School Readiness score 0-20%

This course is designed to prepare students for Algebra 1 with emphasis on foundational skills, student discourse, visual representations, and relational understandings. Topics covered include integers, equations, fractions, the coordinate system, and linear equations. Upon completion of Algebra Readiness, students will be prepared to enroll in Algebra 1 or Algebra 1 with Support.

## **ALGEBRA READINESS ELL - 2067**

Grade Level: 9, 10, and 11

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** Identified Limited English Learner and teacher recommendation

This course offers the same course content as described in Algebra Readiness. It develops Math/ English content vocabulary, writing, and reading skills as part of the curriculum. It is designed for those students who require a Sheltered English instructional approach in mathematics. Spanish language assistance is also available through a bilingual paraprofessional.

## **ALGEBRA 1 with Support - 2042 & 0600**

Grade Level: 9 or higher with teacher recommendation

Course Length: 1 year

Credit: 10 credits towards the math requirement and 10 elective credits, satisfies the Algebra requirement

UC/CSU Category: c-Mathematics

**Prerequisite:** Student must meet at least 2 of 3 criteria: 8th grade math grade of F or D; 7th grade CAASPP Math score 1 or 2; MDTP High School Readiness score 0-20%

### **Note: This is a two-hour course consisting of Algebra 1P w/ Support and Algebra 1P Support**

This course is Support is a dual period class and is designed to provide students with an additional period of math support to assist students in successfully completing the Algebra requirement for high school graduation. The class focuses on providing students with additional Algebra instruction and assistance, a review of essential math concepts, and study skills. Topics covered include integers, expressions, equations, inequalities, functions, sequences, linear equations, linear inequalities, systems, statistics, polynomials, quadratics, and exponential functions. Upon completion of Algebra 1 with Support, students will be prepared to enroll in Geometry.

## ALEGBRA 1 ELL - 2070

Grade Level: 9, 10, 11, 12

Course Length: 1 Year

Credit: 10 credits

UC/CSU Category: c-Mathematics

**Prerequisite:** Identified English Language Learner and Teacher recommendation

This course offers the same course content as described for Algebra1. Developing Math English content vocabulary, writing and reading skills are also included as part of the curriculum. It is designed for those students who require a Sheltered English instructional approach in mathematics. Spanish language assistance is also available through a bilingual paraprofessional and Spanish Instructional materials.

## ALGEBRA 1 - 2052

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits towards the math requirement, satisfies Algebra requirement

UC/CSU Category: c-Mathematics

**Prerequisite:** Student meets at least 2 of 3 criteria: 8th grade math grade of C or better, or Algebra Readiness grade of D or better; 7th grade CAASPP Math score of 3 of 4; MDTP High School Readiness score of 21% or above

This course is designed to provide for a full year of fundamentals in Algebra. Topics covered include integers, expressions, equations, inequalities, functions, sequences, linear equations, linear inequalities, systems, statistics, polynomials, quadratics, and exponential functions. Upon completion of Algebra 1, students will be prepared to enroll in Geometry.

## GEOMETRY - 2103

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits towards the math requirement

UC/CSU Category: c-Mathematics

**Prerequisite:** Grade of D or better in Algebra with Support of Algebra 1

This course designed to provide for a full year of fundamentals in Geometry. Topics covered include constructions, transformation, congruence, triangles, proof, quadrilaterals, statistics, probability, similarity, trigonometry, solids, and circles. Upon completion of Geometry, students will be prepared to enroll in Algebra 2 or Advanced Algebra 2.

## GEOMETRY ELL - 2106

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: c-Mathematics

**Prerequisite:** Grade of D or better in Algebra 1.

This course offers the same course content as described for Geometry. Developing Math English content vocabulary, writing, and reading skills are also included as part of the curriculum. It is designed for those students who require a Sheltered English instructional approach in mathematics. Spanish language assistance is also available through a bilingual paraprofessional and Spanish instructional materials.

## ALGEBRA 2 - 2093

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits towards the math requirement, satisfies Algebra requirement

UC/CSU Category: c-Mathematics

**Prerequisite:** Grade of D or better in Geometry.

**Note: Students intending to take Pre-Calculus are recommended to enroll in Advanced Algebra 2.**

Algebra 2 is designed to provide for a full year of intermediate and advanced Algebra. Topics covered include absolute value functions, piecewise functions, quadratic functions, polynomial functions, rational functions, radical functions, exponential functions, and logarithmic functions. Upon completion of Algebra 2, students will be prepared to enroll in Advanced Math or Pre-Calculus.

## ADVANCED ALGEBRA 2 - 2100

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits towards the math requirement, satisfies Algebra requirement

UC/CSU Category: c-Mathematics

**Prerequisite:** Grade of C or better in Geometry.

**Note: Students intending to take Pre-Calculus are recommended to enroll in Advanced Algebra 2.**

This course is designed to provide for a full year of intermediate and advanced Algebra, including more rigorous topics that extend into higher mathematics. Topics covered include absolute value functions, piecewise functions, quadratic functions, polynomial functions, rational functions, radical functions, exponential functions, and logarithmic functions. Upon completion of Advanced Algebra 2, students will be prepared to enroll in Advanced Math or Pre-Calculus.

## ADVANCED MATHEMATICS - 2040

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits towards the math requirement

UC/CSU Category: c-Mathematics

**Prerequisite:** Grade of D or better in Algebra 2 or Advanced Algebra 2.

This course is designed to provide for a full year of advanced Algebra. Advanced Math provides a third or fourth year of mathematics for students seeking an opportunity to build their mathematical fluency before advancing to Pre-Calculus or AP Statistics. Topics covered include analytical geometry, quadratic functions, trigonometric functions, systems, statistics, and probability. Upon completion of Advanced Math, students will be prepared to enroll in Pre-Calculus or AP Statistics.

## PRE-CALCULUS - 2131

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits towards the math requirement

UC/CSU Category: c-Mathematics

**Prerequisite:** Grade of C or better in Advanced Algebra 2 or a grade of B or better in Algebra 2

This course is designed to provide for a full year of advanced Algebra. Topics covered include analytical geometry, quadratic functions, trigonometric functions, systems, matrices, vectors, polar coordinates, statistics, probability, and derivatives. Upon completion of Advanced Math, students will be prepared to enroll in Pre-Calculus, AP Statistics, AP Calculus AB, or AP Calculus BC.

## AP CALCULUS AB - 2133

Grade Level: 12

Course Length: 1 year

Credit: 10 credits towards the math requirement

UC/CSU Category: c-Mathematics

**Prerequisite:** Grade of A in Advanced Algebra 2 or a grade of C or better in Pre-Calculus

This course is designed to be taught as a college level course to prepare students for taking the Advanced Placement examination in Calculus AB. Topics covered include limits, derivatives, integration, and the definite integral. Upon completion of AP Calculus AB, students will be prepared to enroll in college level Calculus course-work.

## AP CALCULUS BC - 2136

Grade Level: 12

Course Length: 1 year

Credit: 10 credits towards the math requirement

UC/CSU Category: c-Mathematics

**Prerequisite:** Grade of A or better in Pre-Calculus; or a grade of C or better in AP Calculus AB

This course is designed to be taught as a college level course to prepare students for taking the Advanced Placement examination in Calculus BC. Topics covered include limits, derivatives, integration, the definite integral, series, and Taylor series. Upon completion of AP Calculus BC, students will be prepared to enroll in college level Calculus course-work.

## AP STATISTICS - 2020

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits towards the math requirement

UC/CSU Category: c-Mathematics

**Prerequisite:** Grade of A or better in Algebra 2; grade of C or better in Advanced Algebra 2 ; grade of D or better in Pre-Calculus

This course is designed to be taught as a college level course to prepare students for taking the Advanced Placement examination in Statistics. Topics covered include data analysis, data collection, probability, and inference. Upon completion of AP Statistics, students will be prepared to enroll in college level Statistics course-work.

## AP COMPUTER SCIENCE Principles - TBD

Grade Level: 10, 11, and 12

Course Length: 1 year

Credit: 10 credits towards the math requirement

UC/CSU Category: Meets "C"-mathematics requirement

**Prerequisite:** Grade of D or better in Algebra 2

This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field. This course is designed to prepare students wishing to receive college credit to pass the AP Computer Science Principles Exam.

## Mathematics Courses

### AP COMPUTER SCIENCE A - 3317

Grade Level: 10, 11, and 12

Course Length: 1 year

Credit: 10 credits towards the math requirement

UC/CSU Category: Meets "C"-mathematics requirement

**Prerequisite:** Algebra 2 – D or better

This course is designed to be taught as a college level course in Java to prepare students for taking the Advanced Placement examination in Computer Science A. Topics covered include objects, methods, data types, loops, algorithms, and data structures. Upon completion of AP Computer Science A, students will be prepared to enroll in college level Computer Science course-work.

### Applications and Interpretation SL - TBD

Grade Level: 11 and 12

Course Length: 1 year

Credit: 10 credits towards the math requirement

UC/CSU Category: Meets "C"-mathematics requirement

**Prerequisite:** Grade of C or better in Advanced Algebra II, (course is designed for IB diploma candidates or anticipated IB diploma candidates)

This course is designed for current IB diploma candidates or anticipated IB diploma candidates. This course is designed for students who enjoy describing the real world and solving practical problems using mathematics, those who are interested in harnessing the power of technology alongside exploring mathematical models and enjoy the more practical side of mathematics.

## Science Courses

### BIOLOGY - 3136

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Completion of or enrollment in elementary Algebra.

This course is the natural science that involves the study of life and living organisms, including their physical and chemical structure, function, development and evolution. This course gives students a good foundation in Biology with related Earth Science phenomena and Engineering applications. The following topics will be covered: cell structure and function; mitosis and cell division; cell differentiation; systems of specialized cells; homeostasis and feedback mechanisms; energy and matter flow through ecosystems; ecosystem dynamics; photosynthesis and cellular respiration; history of earth's atmosphere and biogeochemical cycles; DNA structure and function; meiotic cell division; genetics; DNA replication; protein synthesis; evidence of evolution; natural selection and adaptations; social interactions and group behavior; ecosystem stability and its response to climate change; the influence of natural resource availability, natural hazards, and changes in climate on human populations; human impacts on ecosystems; natural resources and global climate change; conservation of natural resources-solutions and sustainability. This course meets all NGSS standards for Biology and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

## BIOLOGY ELL – 3152

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Identified English Language Learner and teacher recommendation.

This course is similar in content to general Biology, but is designed for students that have limited English Proficiency. Topics presented include cell structure and function, ecology, molecular biology, evolution, human body systems and genetics. This course meets all California State Standards in Biology.

## ENHANCED BIOLOGY - 3163

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Completion of or enrollment in elementary Algebra.

This course gives students a good foundation in Biology with related Earth Science phenomena and Engineering applications. Biology is the natural science that involves the study of life and living organisms, including their physical and chemical structure, function, development and evolution. In addition, Enhanced Biology provides students with the additional skills and content necessary for advanced study in the sciences. The following topics will be covered: cell structure and function; mitosis and cell division; cell differentiation; systems of specialized cells; homeostasis and feedback mechanisms; energy and matter flow through ecosystems; ecosystem dynamics; photosynthesis and cellular respiration; history of earth's atmosphere and biogeochemical cycles; DNA structure and function; meiotic cell division; genetics; DNA replication; protein synthesis; evidence of evolution; natural selection and adaptations; social interactions and group behavior; ecosystem stability and its response to climate change; the influence of natural resource availability, natural hazards, and changes in climate on human populations; human impacts on ecosystems; natural resources and global climate change; conservation of natural resources-solutions and sustainability. This course meets all NGSS standards for Biology and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

## ENHANCED BIOLOGY ACAD- 3362

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Completion of or enrollment in elementary Algebra.

This course gives students a good foundation in Biology with related Earth Science phenomena and Engineering applications. Biology is the natural science that involves the study of life and living organisms, including their physical and chemical structure, function, development and evolution. In addition, Enhanced Biology provides students with the additional skills and content necessary for advanced study in the sciences. The following topics will be covered: cell structure and function; mitosis and cell division; cell differentiation; systems of specialized cells; homeostasis and feedback mechanisms; energy and matter flow through ecosystems; ecosystem dynamics; photosynthesis and cellular respiration; history of earth's atmosphere and biogeochemical cycles; DNA structure and function; meiotic cell division; genetics; DNA replication; protein synthesis; evidence of evolution; natural selection and adaptations; social interactions and group behavior; ecosystem stability and its response to climate change; the influence of natural resource availability, natural hazards, and changes in climate on human populations; human impacts on ecosystems; natural resources and global climate change; conservation of natural resources-solutions and sustainability. This course meets all NGSS standards for Biology and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

## BIOLOGY AG - 3105

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** None

This is a one-year course designed to integrate biological science practices and knowledge into the practice of sustainable agriculture. The course is organized into four major sections, or units, each with a guiding question. Unit one addresses the question, what is sustainable agriculture? Unit two, sustainable agriculture fit into our environment? Unit three, what molecular biology principles guide sustainable agriculture? Unit four, how do we make decisions to maximize sustainable agricultural practices within a functioning ecosystem? Within each unit specific life science principles will be identified with agricultural principles and practices guiding the acquisition of this knowledge, culminating in the development of a sustainable farm model and portfolio of supporting student research.

## BIOLOGY IB HL 1- 3335

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Taken or taking Chemistry and have taken Biology, preferably Advanced Biology

This course will be the first part of a two-year sequence that will prepare students for the higher level IB exam in Biology. Topics covered include: Biochemistry, cells, energy relationships, reproduction/heredity, and variation. Students taking Biology IB HL 1 should be prepared to study university level topics.

## BIOLOGY IB HL 2 - 3337

Grade Level: 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Biology IB HL1

This is the second level year of the International Baccalaureate Higher Level Biology class. Extensive data analysis and student based research is stressed. Students explore human embryology, evolution, human systems, applied plant and animal biology, and ecology. The IB Higher-level examination is given in May. This course is 2+2 articulated at Delta College and students receiving a B or better receive 5 units of college credit.

## CHEMISTRY - 3266

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Completion of Biology or Agriculture Biology; completion of or enrollment in elementary Algebra.

This course gives students a good foundation in Chemistry with related Earth Science phenomena and Engineering applications. The following topics will be covered: scientific measurements, combustion, conservation of mass and energy, atomic structure and bonding, Coulomb's law, the internal structure of the earth, feedback loops, thermochemistry, periodic table, chemical reactions, stoichiometry, Le Châtelier's law, reaction rates, greenhouse gases, climate change and human effects, solutions, acids and bases, the carbon cycle, resource management, and engineering designs. This course meets all NGSS standards for Chemistry and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

## ENHANCED CHEMISTRY - 3294

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Completion of Biology or Enhanced Biology; completion of or enrollment in elementary Algebra.

This course gives students a good foundation in Chemistry with related Earth Science phenomena and Engineering applications. In addition, Enhanced Chemistry provides students with the additional skills and content necessary for additional study in the sciences. The following topics will be covered: scientific measurements, combustion, conservation of mass and energy, atomic structure and bonding, Coulomb's law, the internal structure of the earth, feedback loops, thermochemistry, periodic table, chemical reactions, stoichiometry, Le Châtelier's law, reaction rates, greenhouse gases, climate change and human effects, solutions, acids and bases, the carbon cycle, resource management, and engineering designs. This course meets all NGSS standards for Chemistry and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

## ENHANCED CHEMISTRY ACAD- 3374

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Completion of Biology or Enhanced Biology; completion of or enrollment in elementary Algebra.

This course gives students a good foundation in Chemistry with related Earth Science phenomena and Engineering applications. In addition, Enhanced Chemistry provides students with the additional skills and content necessary for additional study in the sciences. The following topics will be covered: scientific measurements, combustion, conservation of mass and energy, atomic structure and bonding, Coulomb's law, the internal structure of the earth, feedback loops, thermochemistry, periodic table, chemical reactions, stoichiometry, Le Châtelier's law, reaction rates, greenhouse gases, climate change and human effects, solutions, acids and bases, the carbon cycle, resource management, and engineering designs. This course meets all NGSS standards for Chemistry and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

## CHEMISTRY AG - 3188

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** C or better in Algebra 1

Agriculture and Soil Chemistry is a laboratory science course designed for the college bound student with career interests in agriculture. Students will be involved in hands on laboratory study and receive an in-depth look at various concepts in chemistry including: chemistry and its relationship to agriculture, matter and energy, the periodic table, bonding, chemical reactions, moles, gases and gas laws.

## CHEMISTRY IB SL - 3287

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Advanced Chemistry and Algebra 2

This course is the equivalent of first-year college chemistry. The objective is to provide the student with some college level experience in chemistry, and to pass the standard level IB and/or AP examination.

## EARTH SCIENCE - 3021

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** None

This course is designed for the student who wishes to learn about the physical world around them by studying the interconnected disciplines of Geology, Oceanography, Meteorology, and Astronomy. By the end of the course students will gain an understanding of the structure and history of the Earth, our solar system, and surrounding universe. The course includes topics such as earthquakes, volcanoes, global climate change and the life cycle of a star. This course is credited as a CSU/UC Science elective and will serve as an introduction to disciplines of physical science that many students encounter in their college general education requirements. It will also provide a solid base for students wishing to pursue any of the Earth Sciences as a major. This course fulfills the 3rd year science requirement for the class of 2020 and 2021 only.

## EARTH SCIENCE ELL - 3032

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** Identified English Language Learner and teacher recommendation.

This course addresses California State Standards for Earth Science. It is intended for English Learners who are at the Beginning to Early Advanced levels of English proficiency. The course develops science English vocabulary and communication skills. Spanish language assistance is available through a bilingual teacher/paraprofessional and Spanish language instructional materials. In addition, Specially Designed Academic Instruction in English methods are utilized. See Earth Science 3021 for complete course description.

## PHYSICS - 3330

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Completion of Biology or Agriculture Biology; completion of or enrollment in elementary Algebra.

Physics is the study of matter and energy and the interaction between them. Physics is about asking fundamental questions about the world around us, and trying to answer them by observing and experimenting. This course gives students a good foundation in Physics with related Earth Science phenomena and Engineering applications. The following topics will be covered: forces, laws of motion, structures, plate tectonics, momentum, collisions, universal gravity, Kepler's laws, planetary motion, waves, earthquakes, wave technology, the nature of light, optics and light spectra, the big bang theory, electrostatics, electricity and circuits, magnetism and electromagnetic induction, energy, power plants, renewable sources, nuclear radiation and processes, and history of the Earth, stars and the universe. This course meets all NGSS standards for Physics and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

## ENHANCED PHYSICS - 3311

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Completion of Biology or Enhanced Biology; completion of or enrollment in elementary Algebra.

Physics is the study of matter and energy and the interaction between them. Physics is about asking fundamental questions about the world around us, and trying to answer them by observing and experimenting. This course gives students a good foundation in Physics with related Earth Science phenomena and Engineering applications. In addition, Enhanced Physics provides students with the additional skills and content necessary for advanced study in the sciences. The following topics will be covered: forces, laws of motion, structures, plate tectonics, momentum, collisions, universal gravity, Kepler's laws, planetary motion, waves, earthquakes, wave technology, the nature of light, optics and light spectra, the big bang theory, electrostatics, electricity and circuits, magnetism and electromagnetic induction, energy, power plants, renewable sources, nuclear radiation and processes, and history of the Earth, stars and the universe. This course meets all NGSS standards for Physics and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

## PHYSICS ELL - 3331

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category d-Lab Science

**Prerequisite:** Grade of C or better in Biology ELL and identification as English Learner

This course is designed for students that are English Learners. It covers the same core content as Physics, with additional support for English Learners. For the ELL course, students should be below the Intermediate level on their CELDT scores. Physics is about the nature of basic things such as motion, forces, energy, matter, heat, sound, light, and the composition of atoms. This course meets all California State Standards for Physics.

## PHYSICS IB SL - 3323

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** B or higher in Algebra 2 and teacher recommendation. Recommend concurrent enrollment in Pre-Calculus or higher math course

Physics is the study of matter and energy. Topics covered are: Kinematics, Mechanics, Waves, Thermodynamics, Electricity, Magnetism, Climate Change and two other additional optional topics. This course is foundational piece designed to meet the needs of students that would like to pursue a career in Science, Technology, Engineering, or Math.

## HUMAN PHYSIOLOGY - 3203

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Biology

This course is designed to study the anatomy and physiology of the human body. Review of the cell, with extensive study of the organ systems of the body, will be included. The course will employ the use of preserved dissection specimens as a comparison with the human body. This course will help prepare students interested in careers such as medicine, nursing, physical therapy, veterinary science, biology, and other related careers. This course fulfills the 3rd year science requirement for the class of 2020 and 2021 only.

## **HUMAN PHYSIOLOGY ELL - 3205**

Grade Level: 11-12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Identification as English Learner and teacher recommendation.

This course is intended for English Learners who are at the Beginning to Early Advanced levels of English proficiency. The course develops science English vocabulary and communication skills. Spanish language assistance is available through a bilingual teacher/paraprofessional and Spanish language instructional materials. In addition, Specially Designed Academic Instruction in English methods are utilized. See Human Physiology (3203) for course content description.

## **ENVIRONMENTAL SYSTEMS AND SOCIETIES IB SL - 3055**

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: d-Lab Science

**Prerequisite:** Grade of "C" or better in Advanced Biology or Science Classes, and Science teacher recommendation.

The course is designed to investigate and describe the characteristics of the natural environment from the standpoint of the common principles which operate in all ecological systems. Topics covered will be an in-depth study of the Ecosystem, Global Cycles, Human Population, Resources and a detailed study of Fresh Water Ecosystems. This class is designed to meet the needs of those students who want to be challenged academically. The course will prepare students for college and/or the International Baccalaureate Diploma or Certificate.

## **LAB RESEARCH IN BIOTECHNOLOGY - 3200**

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** Biology or Advanced Biology, Chemistry or Advanced Chemistry, MINIMALLY.

This course is for those students who wish to learn more biotechnological techniques and want to work independently on a science project involving laboratory and library research. The class is designed for students who are resourceful, responsible, patient and interested in pursuing science work in the future.

## **Ag/Science ADVANCED SOCIAL STUDIES 1/ WORLD GEOGRAPHY - 7001**

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** Acceptance into the Ag/Science Academy

This course is a problem based thematic program for ninth graders entering the Ag/Science Academy. This course will explore how to use geography as a tool to better understand the world in which we live. This course will follow the 18 Geography Standards, which can be viewed on the National Geographic web site. This course continues to use previously learned geography skills from middle school. This course is designed to offer students adequate rigor and challenge to participate in the IB program.

## **WORLD HISTORY - 7103**

Grade Level: 10

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a-History/Social Studies

**Prerequisite:** None

World History is a 10th grade graduation require-requirement that examines the critical events, trends, government, economics, religious, philosophical movements, and technological advances that effect the course of Western, as well as Middle Eastern, Asian, African and Western Hemisphere cultures from the rise of democratic states in the early 1600s to the present era.

## **WORLD HISTORY ELL - 7135**

Grade Level: 10, 11

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a-History/Social Studies

**Prerequisite:** Identified as an English Language Learner and teacher recommendation.

English proficient students with an introduction and general overview of the areas, issues, and problems of the modern world since the Renaissance. Sheltered instructional approaches and techniques are used. The course also develops English social science vocabulary and communication skills. Spanish language assistance is available through a bilingual teacher/paraprofessional and instructional materials in Spanish.

## **ADVANCED WORLD HISTORY - 7111**

Grade Level: 10

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a-History/Social Studies

**Prerequisite:** Grade C or better in 9th grade Advanced English 1 and teacher recommendation.

World History is a tenth grade graduation requirement. For students who want to take the honors level equivalent to World History. The History of Humanity Pre IB course examines major turning points in the shaping of the modern world during the twentieth century. The course will emphasize the study of three main subject areas: (1) the causes, practices, and effects of war; (2) the rise and rule of single party states; and (3) the Cold War.

## **Ag/Science ADVANCED SOCIAL STUDIES 2/ WORLD HISTORY - 7107**

Grade Level: 10

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a-History/Social Studies

**Prerequisite:** Completion of Ag/Science Social Studies 1 Pre IB 7001 with a 'C' or better.

This course is an interdisciplinary thematic-based program that fulfills the World History requirements for sophomores entering their second year in the Ag/Science Academy. Reading, writing, listening, and speaking skills are developed as students critically examine major historical movements, themes, and events focusing on interrelated world literature and agricultural scientific-based themes. The units of instruction for this course and the Ag/Science English 2 have common objectives, themes and teaching time frames that promote both cooperative learning and individual student growth. This course is designed to offer students adequate rigor and challenge to participate in the IB program.

## **UNITED STATES HISTORY - 7253**

Grade Level: 11

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a-History/Social Studies

**Prerequisite:** World History

This course is a required course which builds on the foundation of US History instruction given in 8th grade. The course is an in-depth study of United States history which begins with a review of the nation's beginnings through 1900. Most of the course will emphasize the major turning points of the history of the 20th century, beginning with the Progressive Era and ending at the present time. Emphasis will be on reading, writing, thinking, and speaking skills. The course will emphasize critical thinking skills. Students will consider throughout their study of history, how turning points reflect both continuity and change and relate to their lives. Students will become familiar writing a variety of essay compositions; taking objective tests; the cooperative group learning process; oral activities including presentations, discussion, debate; and their search process.

## **UNITED STATES HISTORY ELL - 7286**

Grade Level: 11-12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a- History/Social Studies

**Prerequisite:** Identified as an English Language Learner and teacher recommendation.

This course addresses California State Standards in US History and Geography. It is intended for English Learners who are at the Beginning to Early Advanced levels of English proficiency. The course develops English Social Science vocabulary and communication skills. Spanish language assistance is available through a bilingual teacher/paraprofessional and Spanish language instructional materials. Also, Specially Designed Academic Instruction in English methods are utilized. See US History (7253) for course content description.

## Social Studies Courses

## Course Descriptions

### **Ag/Science UNITED STATES HISTORY - 7263**

Grade Level: 11

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a-History/Social Studies

**Prerequisite:** Completion of Ag/Science Advanced Social Studies 2 with a 'C' or better.

This course is a required course. It is an in-depth study of United States history which begins with a review of the nation's beginnings through 1900. The course will emphasize the major turning points of the 20<sup>th</sup> century, beginning with the Progressive Era and ending at the present time. Emphasis will be on reading, writing, thinking, and speaking skills. The course will emphasize critical thinking skills. Students will consider throughout their study of history, how turning points reflect both continuity and change and relate to their lives. Students will become familiar writing a variety of essay compositions; taking objective tests; the cooperative group learning process; oral activities including presentations, discussions, debate; and their search process.

### **AMERICAN GOVERNMENT – 7381**

Grade Level: 12

Course Length: 1 semester

Credit: 5 credits

UC/CSU Category: a- History/Social Science or Category g- Elective

**Prerequisite:** U.S. History

The course will enable students to fulfill their civic responsibilities, participate in the political process and make informed decisions. A research project is required in either American Government or Economics. The course will include written and oral inquiry, discussion and research and questions and issues raised in a dynamic political world.

### **ECONOMICS - 7381**

Grade Level: 12

Course Length: 1 semester

Credit: 5 credits

UC/CSU Category: a-History or Category g- Elective

**Prerequisite:** U.S. History

This course is a one-semester course that is designed to develop and promote economic literacy and enhance student understanding of the economic problems and institutions of the nation and the world in which we live. The course will enable students to make reasoned decisions on economic issues as participating citizens, workers, consumers, and functioning members of our society. They will add to the economic knowledge and understanding they acquired in World History and U.S. History.

### **AMERICAN GOVERNMENT AND ECONOMICS ELL - 7320**

Grade Level: 11-12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a- History/Social Studies or Category g - Elective

**Prerequisite:** Identified as an English Learner and teacher recommendation.

This course addresses California State Standards I American Government and Economics. It is intended for English Learners who are at the Beginning to Early Advanced levels of English proficiency. The course develops English Social Science vocabulary and communication skills. Spanish language assistance is available through and bilingual teacher/paraprofessional and Spanish language instructional materials. Also, Specially Designed Academic Instruction in English methods are utilized. See American Government/Economics (7391/7381) for course content description.

## Ag/Science AMERICAN GOVERNMENT AND ECONOMICS - 7301

Grade Level: 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a-History/Social Studies or Category g - Elective

**Prerequisite:** Completion of Ag/Science Advanced Social Studies 2 with a 'C' or better.

This course is designed for the Academy student to improve and broaden their understanding of the interrelation and impact of economic concepts, principles and theories and government regulation on agriculture. It is a one-year course that fulfills the California State Department of Education requirements for American Government and Economics. The course will meet or exceed District specific curriculum objectives and course content in American Government and Economics. A research project related to agriculture, science, career, or college major will be an integral part of the curriculum and will be mandatory for satisfactory course completion.

## HISTORY OF THE AMERICAS IB HL 1 - 7254

Grade Level: 11

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a- History

**Prerequisite:** Grade of C or better in Advanced World History or World History and recommendation of teacher

This course is the first in a series of two courses and is designed for the academically able student who wants the challenge of a course that will prepare them for college and/or the International Baccalaureate (IB) diploma or certificate. The content of the History of the Americas 1 (H) class differs from our regular program in that it emphasizes the history of 18<sup>th</sup> and 19<sup>th</sup> century. Twentieth century history is covered in the senior year. Beside the study of U.S. History, a broad comparative approach is used to explore the history of Latin America. Students learn the same skills as those students in the regular program, but there is more emphasis on essay tests, writing a variety of essay compositions, the term paper writing process, and delivering extemporaneous and prepared oral presentations. History of the Americas 1 (H) fulfills Tracy High's 11<sup>th</sup> grade graduation requirement for social studies. Because the course is designated an honors class (H) and is usually taken in the last two years of high school, the University of California gives the course extra weight in computing grade-point average for admission to UC schools, if grade earned is a C or better.

## HISTORY OF THE AMERICAS IB HL 2 - 7355

Grade Level: 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: a-History

**Prerequisite:** "C" or better in History of the Americas IB HL1 and/or recommendations from teachers

This course is the second in a series of two courses designed for academically able students who want the challenge of a class that will prepare them for college and/or desire IB credit. The course explores the 20th Century history of the nations of the Western Hemisphere and 20th Century global problems in a comparative political, social, economic and cultural context. Each student will do independent research on a topic of his/her choice, present and defend research findings orally and complete a written research project. Because the course is designated an honors class (H) and is usually taken in the last two years of high school, the University of California gives the course extra weight in computing the grade-point average for admission to UC schools, if grade earned is C or better

## INTRODUCTION TO PSYCHOLOGY - 7340

Grade Level: 11, 12

Course Length: 1 Year

Credit: 10 credits

UC/CSU Category: g - Elective

**Prerequisite:** None

This course is offered to Juniors and Seniors. It is a general course designed to give students a broad overview of the different areas of psychology. The central question the course will attempt to answer is why people behave the way they do? Students will explore their own behavior and analyze themselves in terms of the curriculum. Students will take part in interactive lessons, cooperative assignments and class discussions. This class serves as good base for students who plan to take psychology in college.

## PSYCHOLOGY IB SL - 7351

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** None

This course is offered for Juniors and Seniors who are academically able and want the challenge of a course that will prepare them for college and/or International Baccalaureate (IB) diploma or certificate.

## PHILOSOPHY IB SL - 7357

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** None

This course is designed for academically able students who want the challenge of a course that will prepare them for college and/or the International Baccalaureate diploma or certificate. Philosophy deals with issues that are profound, complex, challenging and important for humanity. Through the examination of themes and texts, the philosophy course allows students to explore fundamental questions that people have asked throughout human history: What is it to be a human being? How do I know what is the right thing to do? For IB diploma candidates, this course will qualify as a 6<sup>th</sup> subject exam.

## SOCIAL AND CULTURAL ANTHROPOLOGY IB SL- 1235

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** None

This course offers an opportunity for students to explore and understand humankind in all its diversity through the comparative study of culture and human societies. It will offer IB honors credit. In studying this course, students will come to appreciate how anthropology as a discipline contributes to an understanding of contemporary issues, such as war and conflict, the environment, poverty, injustice, inequality and human and cultural rights. The study of social and cultural anthropology offers critical insight into the continuities as well as dynamics of social change and the development of societies, and challenges cultural assumptions. Major topics of study may include: how an individual's identity is shaped; interactions between various societies (e.g. through forced migration, globalization, etc.); how societies are organized through gender roles, marriage, and families; and how societies interact with and transform their environment.

## Social Studies Courses

### **THEORY OF KNOWLEDGE IB (H) - 11th = 7287; 12th = 7384**

Grade Level: 11<sup>th</sup> Grade - MWF; 12<sup>th</sup> Grade - T Th

Course Length: 150-200 hours (over two years)

Credit: 10 credits TOK 11 = 6 credits; TOK 12 = 4 credits

UC/CSU Category: g-Elective (TOK 11 only)

**Prerequisite:** Teacher recommendation

This course is a two-year course which is conceived as the integrating hub of the International Baccalaureate (IB) program. It is designed to provide students with an introduction to the practical and philosophical problems surrounding knowledge and knowing. Because the course is designated an honors class, the University of California gives the course extra weight in computing the grade point average for admission to U.C. schools, if grade earned is a C or better.

## Physical Education Courses

### **CORE 9 PHYSICAL EDUCATION - 9001**

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** None

This is a varied activity course of four-week blocks of instruction and activity. The eight activities assigned to the student will be selected from the following list: swimming, tennis, basketball, physical fitness, flag football, volleyball, soccer, and floor hockey. Gym clothes required: athletic shoes, Tracy PE shirt and shorts, and sweats for cold weather are recommended. Grading is based on participation, skill and written testing.

### **ADVANCED PE - 9101**

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** None

This is a varied activity course which is required for all 10th grade students and recommended for 11th and 12th grade students. The course consists of four-week blocks of activity which will be selected from among the following list: basketball, pickle ball, badminton, water polo, lifesaving, flag football, recreational games, softball, volleyball and golf.

### **WEIGHT TRAINING - 9420**

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** "C" or better in Core 9 PE

This course is designed for students in speed and power development. It will utilize a variety of exercises, which will contribute towards a healthy lifestyle. The course will provide a program designed to help students improve muscular strength, muscular endurance, body composition, flexibility and cardio respiratory endurance.

## Physical Education Courses

### COMPETITIVE ATHLETICS WEIGHT TRAINING - 9400

Grade Level: 1 year

Course Length: 10, 11, 12

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** Recommendation of teacher and a C or better in Core 9 P.E. Students in this course must be involved in interscholastic sports at Tracy High. (Offered sixth period only)

This course is designed for students interested in speed and power development. The class is organized to allow athletes to train year around for their sports and to improve their overall performance in the athletic field.

### AEROBICS - 9201

Grade Level: 10, 11, 12 (Priority is given to Seniors and Juniors).

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** "C" or better in Core 9 PE

This course is designed for students interested in participating in daily aerobic exercise. The course will include high and low impact aerobics, yoga, Pilates, and body training. Written tests will be given and the student will study fitness concepts and nutrition.

## Fine Arts Courses

### INTRODUCTION TO ART - 6002

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** None

This course is a beginning level skill-based course to help students understand the basic visual symbols in the language of art. The elements and principles of art will be covered. Work in class is based specifically on fundamental/classical elements of art: line, shape, value, color, form and texture. There is no prerequisite for this course and it is open to any grade level. Students may not repeat this course for credit.

### INTERMEDIATE ART - 6004

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** Introduction to Art or teacher approval

This course is designed for students who have successfully completed Introduction to Art. It applies the elements and principles of art, through a variety of medias, with two and three dimensional projects. Various artists, art movements and art cultural themes are studied during the year. Careers in art and art programs in higher education institutions will be explored.

## ADVANCED ART 3 AND 4 - 6005, 6006

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** Introduction to Art and Intermediate Art or teacher approval

This course is designed for students who have successfully completed Introduction to Art and Intermediate Art. Advanced Art is for students interested in majoring in art, an art related major or career; or the student with specific art interests to be investigated

## CONCERT BAND - 6090

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** None

This is a course in musicianship and artistic training for 9<sup>th</sup> grade students. There will be an emphasis on basic skills of instrumental musicianship through use of group exercises extensively.

## MARCHING BAND - 6073

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 5 (Mon-Fri); 3 (Mon-Wed-Fri); 2 (Tues/Thurs)

**Prerequisite:** Teacher approval

This course is offered at three levels of participation and credit. This is a course in musicianship and artistic training for students wishing to participate in marching band activities. This course does not fulfill UC or CSU fine arts requirements.

## SYMPHONIC BAND - 6093

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** Concert Band and teacher approval

This is a course in musicianship and artistic training for 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> grade students. There will be continued emphasis on basic skills of instrumental musicianship through a study of appropriate band literature. Music history and theory will also be studied extensively.

## ORCHESTRA - 6103

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** 2 years of previous experience or audition

This is a course in musicianship and artistic training focused on orchestral literature. This class is open to 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> grade students. There will be a continued emphasis on basic skills of instrumental musicianship through a study of appropriate orchestral literature. Music history and theory will also be studied. Students will have the opportunity to perform in small ensembles or as soloists.

## JAZZ ENSEMBLE - 6113

Grade Level: 9, 10, 11, 12

Credit: 5 (Mon-Fri); 3 (Mon-Wed-Fri); 2 (Tues/Thurs)

Course Length: 1 semester

UC/CSU Category: None

**Prerequisite:** Audition and Teacher approval

This course is offered at three levels of participation and credit during 7<sup>th</sup> period for one semester. This is a selected group of musicians interested in learning and playing jazz styles. They perform regularly and participate in festivals during the year. Membership is limited to strict instrumentation and members must have the approval of the instructor. This course does not fulfill UC or CSU fine arts requirements.

## CONCERT CHOIR - 6143

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** None

Students will develop proper individual vocal and ensemble singing techniques. This is a class for those with some previous singing experience. They will rehearse and perform music of varied styles and periods. They will also gain an understanding of basic musical notation. Singers will be required to represent the school in concert performances. Students can receive credit for 4 years in this class.

## CHORAL COMPANY - 6123

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** Audition

This class will help a select group of singers to further develop their singing and performing techniques. They will rehearse and perform music from varied styles and historic periods. Students can receive 4 years of credit for this class.

## MADRIGALS - 6144

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** Audition

This is an elite group of students who will study vocal jazz, classical and theatrical music. They will perform regularly and will be involved in musical productions. Movement and dance will be part of this class. Students can receive four years of credit for this class. Students must be enrolled in the Choral Company (Instructor may waive this requirement). All students must audition.

## Fine Arts Courses

### Course Descriptions

#### **PIANO KEYBOARD - 6100**

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** None

Anyone who wishes to learn to play the piano or to improve their current skills may take this class. Music reading and musicianship skills will be taught. No previous piano experience is necessary. More advanced students will be encouraged to expand their repertoire and to play in performances at the solo/ensemble festival. This course can be repeated for credit, with teacher's permission.

#### **ADVANCED PIANO - 6095**

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** Piano Keyboard or Teacher Approval

This course builds on the fundamentals provided in its prerequisite. The class will offer opportunities for advanced performance and technical knowledge. In keeping with the California Standards for Music Education, the course will explore the development of the instrument and the historical scope of its literature. In addition, students will study special units in jazz, composition and MIDI music.

#### **PIANO ACCOMPANIST - 6099**

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** Audition and Teacher Approval

This course provides advanced piano students an opportunity to accompany major musical ensembles, smaller musical ensembles, and soloists during practice sessions, public performances, and music festivals. As students study the elements of music, music theory, and music history, emphasis is placed on artistic perception, creative expression, historical and cultural context, and aesthetic valuing.

#### **DRAMA 1 - 6042**

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** None

This course is designed to give the students a survey of theater. Emphasis is placed on developing basic acting and improvisation skills, through playwriting. Theater history, Tech Theater, and careers in theater are also covered. Units include: creative dramatics, monologue, duet acting, Shakespeare, and pantomime.

## Fine Arts Courses

### ADVANCED DRAMA - 6053

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** Grade C or better in Drama 1 or teacher approval

This course focuses specifically on giving serious drama students concentrated and challenging experiences in acting and directing. Coursework includes: improvisation, play production, repertory work, and auditions. Students will work on in-class projects for public performance.

### FILM STUDIES - 6035

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: f-Visual Performing Arts

**Prerequisite:** None

This course is an introduction to the study of film as an artistic medium. Students will analyze fiction and non-fiction films, as well as create short video productions. Emphasis is placed on artistic perception, creative expression, historical and cultural context, and aesthetic valuing.

### TECHNICAL THEATER - 3067

Grade Level: 10-12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** Grade C or better in Drama 1 or teacher approval

This course will introduce students to the technical needs in theatrical production, as well as career options. Students enrolled in this course will be exposed to stage and set design, lighting and sound design, costume design, design history, stage management, theatre management, and publicity. Students' work will be showcased formally in school productions throughout the year.

## Modern Language Courses

*The ultimate goal of modern language learning is to develop citizens with "international competence." These are individuals who: Communicate accurately and appropriately with representatives of other languages and cultures. Understand the impact that language and culture has on the individual. Function appropriately in at least one other culture and are sensitive to cultural differences in general.*

### MODERN LANGUAGE 1 (SPANISH - 4033; FRENCH - 4013)

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: e-Language

**Prerequisite:** English teacher recommendation.

This course is a college preparatory class. With conscientious study and practice, a student should be able to comprehend and produce limited responses to questions regarding basic objects, colors, clothing, family members, time, days of the week, months, dates, numbers, greetings, frequent adjectives and verbs, and classroom expressions.

## **MODERN LANGUAGE 2 (SPANISH - 4153; FRENCH - 4123)**

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: e-Language

**Prerequisite:** Grade "C" or Higher in Modern Language 1 and teacher recommendation

With conscientious study and practice a student will be able to comprehend and produce responses to material concerning all of level one subjects and functions concerning meals, lodging, transportation, and time, commands, instruction, and courtesy interchanges. A student should recognize differences in the present, past, and future tense and respond to other frequently encountered grammatical prompts.

## **Modern Language 3 (Spanish HL 1 - 4273; French IB HL 1 - 4233)**

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: e-Language

**Prerequisite:** A grade of "C" or better in Modern Language 2 and teacher recommendation

Students at this level should be able to comprehend advanced material. In speaking, the students should be able to discuss topics beyond basic needs. Vocabulary at this point should greatly increase.

## **MODERN LANGUAGE 4 (SPANISH HL 2 - 4383; FRENCH IB HL 2 - 4143)**

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: e-Language

**Prerequisite:** A grade of "C" or better in Modern Language 3 and teacher recommendation

Students at this level should be able to comprehend at a more advanced level. Control of frequently used grammar forms should be present. The student should be able to converse on a variety of topics including everyday situations, current events, job-related information, and subject matter encountered in reading assignments.

## **MODERN LANGUAGE 5 (SPANISH - 4393; FRENCH - 4350)**

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: e-Language

**Prerequisite:** A grade of "C" or better in Modern Language 4 and teacher recommendation

Students in this class work on independent projects which will continue to develop their language skills. This will not be a separate class but combined with another language level.

## Modern Language Courses

### SPANISH FOR NATIVE SPEAKERS 1 - 4103

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: e-Language

**Prerequisite:** Native Spanish speaker; English teacher recommendation

This course addresses the Spanish language arts needs of native Spanish speakers. Spelling, grammar, vocabulary development, critical thinking and study skills are reviewed and studied. Techniques for reading different genres of Hispanic literature are presented. The course also includes units on Hispanic cultures. Emphasis is placed on building a good foundation in Spanish language skills that will enable the student to become bi-literate and successful in advanced Spanish courses.

### SPANISH FOR NATIVE SPEAKERS 2 - 4053

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: e-Language

**Prerequisite:** A grade of "C" or higher in Spanish for Native Speakers 1 -or teacher recommendation

Spanish for Native Speakers 2 expands on the Spanish Language Arts skills presented in Spanish for Native Speakers 1. Advanced grammar, writing listening and speaking skills are developed. Also core readings from Hispanic literature and experiences form the basis of the course. Spanish speakers are prepared for advanced IB Spanish courses. All instruction is in Spanish.

## **CONSUMER HOME ECONOMICS - 5501**

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** None

This course is the science and art of teaching career planning, job skills, resource management, time management, nutrition, food preparation, menu planning, parenting, substance abuse, child care and development, healthy living, clothing and textiles, consumer education, decision making, problem solving, interior design human relationships, family development, and anything else that touches the home and the heart.

### **Family Living**

Family Living will give students an opportunity to study how to improve relationships in the family. Students will learn about the differences in families, and family roles and responsibilities.

### **Leadership**

Students have the opportunity to develop leadership skills by working in cooperative groups, practicing teamwork, defining goals, and assessing personal leadership skills.

## **CHILD DEVELOPMENT - 5450**

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** None

Students will learn how to apply knowledge of child development to planning and implementing developmentally appropriate learning activities for children. Students will practice guidance and teaching techniques in a variety of classroom settings from preschool through elementary school levels.

## **CHILD CARE CAREERS W/CHILDREN (2 hour) - 5400**

Grade Level: 11th or 12th grade or 16 years old

Course Length: 1 year

Credit: 20 credits

UC/CSU Category: None

**Prerequisite:** Child Development desirable

This two-period course prepares students for occupations in child care, education and guidance, as well as child-care related fields such as medicine and social services. Students will also plan and prepare activities to implement at a chosen Community Worksite and work on a Hire Me 1<sup>st</sup> Certification Portfolio.

## **CHILD CARE ADVANCED (2 hour) - 5410**

Grade Level: 12

Course Length: 1 year

Credit: 20 credits

UC/CSU Category: None

**Prerequisite:** ROP Child Development & Education 1

Students completing ROP 1 in their junior year have the option of entering this course in their senior year. This two period course is an extension of the ROP I. Worksites go throughout the entire year as you complete and master lesson planning skills. This course is a great opportunity to apply your knowledge from typical fact-based classes and experience what you've learned in a hands-on manner.

## Home Economics Courses

### **FOOD EDUCATION AND SERVICE TRAINING FEAST 1 (2 hour) - 5553**

Grade Level: 11th or 12th grade or 16 years old

Course Length: 1 year

Credit: 20 credits

UC/CSU Category: None

**Prerequisite:** Consumer Home Economics and teacher approval is desirable

For students interested in Food Preparation, F.E.A.S.T. (Food Education and Service Training) is a two period occupational training program to develop entry level skills for the use in the food service industry. Students are provided an opportunity to be a coordinator for one day in the restaurant. Their duties are to develop a menu, costing of items, ethnic descriptions, plate presentations, room decorations, sanitation & safety strategies, and marketing strategies. Students create culinary art displays in bread, cake decorating and gingerbread houses to show how design principles and colors relate to food. Catering community and school meals, job seeking skills, and competitive opportunities are also components of this course. Students will develop a portfolio which will incorporate all of their work for the year.

### **FOOD EDUCATION AND SERVICE TRAINING FEAST 2 (2 hour) - 5563**

Grade Level: 11th or 12th grade or 16 years old

Course Length: 1 year

Credit: 20 credits

UC/CSU Category: None

**Prerequisite:** FEAST 1 and teacher approval

Senior students completing beginning FEAST 1 will have the first option of taking this two-hour course. FEAST 2 is an extension of FEAST I and involves the possibility of placement in community classroom, job shadowing and learning sites. Independent projects and the catering industry are discussed.

## Agriculture Courses

*FFA participation is required in all Agriculture classes and is considered a part of each student's grade*

### **ANIMAL PHYSIOLOGY - 3135**

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** Ag Biology or Biology

This course is a college preparatory course intended to provide students with theories and principles related to animal anatomy and physiology. All body systems will be covered.

### **FORESTRY AND WILDLIFE - 3114**

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** None

This course covers all the major areas of forestry and wildlife. Units covered are: forest management, forest conservation, tree identification, lumber identification, history of abuse and depletion of wildlife, extinction, habit requirements, wildlife identification, and other related topics.

## **SMALL ANIMALS AND HORSES - 5331**

Grade Level: 9, 10, 11, 12

Course Length: 1year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** None

This course covers the care and management of laboratory animals. Rats, reptiles, dogs, cats, guinea pigs, hamsters, mice and rabbits are studied with limited handling experiences provided. The horse section covers the care and management of horses. Breeds of horses, horse selection, horse tack, equipment, and facilities are also part of this course.

## **VETERINARY SCIENCE - 3110**

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g- Elective

**Prerequisite:** Ag/Science Academy junior, Animal Physiology or Adv. Biology, Algebra 1, or teacher recommendation

This course will introduce the knowledge and skills needed to pursue further training as an animal health technician. This course will combine a strong academic curriculum with ample hands-on experiences. The student will gain a working knowledge of animal behavior, handling and restraint, nutrition and disease. Labs include bacteriology, parasitology, urinalysis, fecal analysis and dissection. Both small and large animal species will be studied.

## **CTE VETERINARY SKILLS - 3109**

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** Animal Physiology, ROP Meat Processing or Veterinary Science

Students will receive online course work combined with hours of hands-on lab activities in the classroom then practicing what has been learned in a veterinary clinic or environment. Students choosing to take the certification test and pass at the end of the year will receive Veterinary Assistant Certification while those passing the class with a C or higher will receive a program completion certificate. The class will utilize the Animal Care Technologies (ACT) and the Texas Veterinary Medical Association (TVMA) Certified Veterinary Assistant Training Program Online. The CVA Online Program delivers the curriculum anywhere, anytime. Upon completion, a certificate is issued demonstrating one's competency in the basic skills required of a veterinary assistant. This is a CVA course.

## **SHOP SKILLS 1 - 5313**

Grade Level: 9, 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** None

This course is an introductory shop class designed to meet the needs of those students who wish to enhance their mechanical skills in a number of areas. Students will build projects in each of the areas to learn and demonstrate their skills.

## **SHOP SKILLS 2 - 5314**

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** Completion of Shop Skills 1

This course is a continuation of Shop Skills I. It is designed to meet the needs of those students who wish to continue to enhance their mechanical skills in a number of areas. In addition, it will prepare students to enter into advanced classes at a higher skill level. Students will build projects in each of the areas to learn and demonstrate their skills.

## **WOOD 1 - 5103**

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** None

This course introduces the student to hand and power tool safety. They are expected to build and pay for projects of their choice in using all equipment. A textbook is used as a basis of instruction.

## **AG WELDING (1 hour) - 5363**

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** None

This course covers safety, tools, arc welding, MIG Welding, TIG Welding, acetylene welding, brazing, acetylene cutting, and metal working. As students become proficient, they will construct projects which include welding skills. Can be taken a 2<sup>nd</sup> year with students involved in construction projects. 2 + 2 Articulation with Modesto Junior College and San Joaquin Delta College.

## **LANDSCAPING (2 hour) - 5343**

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** None

This course emphasizes all phases of the landscape industry. Skills learned ranged from landscape drafting, design, irrigation system, concrete work, and all other related skills. Students will be able to use their skills and knowledge on actual landscape projects on campus and off campus. (ROP classes can be taken 2 consecutive years for credit.)

## **MEAT PROCESSING (2 hour) - 5393**

Grade Level: 11, 12

Course Length: 1 year

Credit: 20 credits

UC/CSU Category: None

**Prerequisite:** None

Meat processing techniques include slaughtering, meat cutting, wrapping, meat curing, sausage making, and use of meat processing tools. Beef, pork, and lamb are actually processed by students to gain the skills needed for employment. (ROP classes can be taken 2 consecutive years for credit.)

## Industrial Technology Courses

### AUTO MECHANICS - 5043

Grade Level: 10, 11, 12  
 Course Length: 1 year  
 Credit: 10 credits  
 UC/CSU Category: None  
**Prerequisite:** None

Basic instruction in the principles of internal combustion engines and the transmission of power, as applied to the automobile, fundamental operation of the automobile mechanisms, automobile maintenance, automotive accessories, related technical and occupational information, and common repairs. This class offers a foundation towards passing ASE Certification (A4 Suspension and Steering, A5 Brake Systems, A6 Electrical/Electronic, and A8 Engine Performance)

### AUTO TECH (2 HOUR) - 5253

Grade Level: 11, 12  
 Course Length: 1 or 2 years  
 Credit: 20 credits  
 UC/CSU Category: None  
**Prerequisite:** Grade of C or better in Auto Mechanics 1 or teacher approval.

In-depth theory and practical application are the mainstays of this advanced class. Students become aware of the importance of diagnosing, troubleshooting, and repairing automotive components. *This course is 2 + 2 articulated with Delta College. Also articulated with Los Positas College. (Auto 62, Auto 63, and Auto 64). Students can earn up to nine units of Delta College credits (Units may also be transferred to four year Universities that are 2 + 2 + 2 articulated with Delta College).*

## Non-Departmental Courses

### JOURNALISM 1363

Grade Level: 11, 12  
 Course Length: 1 year  
 Credit: 10 credits  
 UC/CSU Category: None  
**Prerequisite:** Grade of B or better in English courses or Journalism teacher/Counselor approval.

The Journalism class publishes the student newspaper Scholar & Athlete every three weeks throughout the school year. Students are taught how to write in a journalistic style and instructed as to the responsibility of the free press. Students should be Juniors and seniors and have a "B" average in English. Sophomores and freshmen are permitted to take the class with Journalism teacher/Administrator permission.

### LEADERSHIP TRAINING - 8460

Grade Level: 9 (class officers only) 10, 11, 12  
 Course Length: 1 year  
 Credit: 10 credits  
 UC/CSU Category: None  
**Prerequisite:** Elected ASB Officers, Class Officers & appointed Commissioners or by application & with the Activity Director's approval.

This is a leadership-development/activities class, for students who want to be actively involved in a Chapter, State or National student organization, or student Body Office. Students will receive training in public relations, team building, time and stress management, organizational skills, community service, career awareness and job preparation, project presentations, public speaking, and parliamentary procedures. Students will be involved in many hands-on activities and have the opportunities to practice all related skills. Responsible for planning and carrying out all student Body Activities.

# Non-Departmental Courses

## YEARBOOK DESIGN - 6031

Grade Level: 10, 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** Teacher approval required.

The school yearbook, called El Portal, is issued during the last week of the school year. It is produced by the El Portal staff and contains a pictorial history for the school year. Students are required to put in several out-of-school hours in addition to the class period. This class may be repeated.

## MAKER SPACE - 2720

**Grades: 10, 11, 12**

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** C or better in Geometry or currently taking Geometry.

Maker Space is a project based course designed to provide students with the opportunity to apply the principles of physics to design and create a series of engineering projects. Over the course of the year students will learn and apply the following 21st century skills in their projects: electronics, circuitry, drafting, 3D printing, solar cell technology, computer programming, and robotics. Students will learn about these areas and apply them to solve problems through the engineering design and creation process. In doing so students will be fully addressing all of the Engineering Performance Expectations in the Next Generation Science Standards. Students will end the year by presenting their final projects at a regional Maker Faire. Additionally, students will have the opportunity to use the knowledge gained, skills learned, course materials, and an allotment of course time to work on STEM Fair projects. Maker Space will help students acquire the technological skills and fundamental scientific knowledge to be successful in Physics and IB Physics.

## WORK EXPERIENCE EDUCATION

Grade Level: 11, 12

Course Length: 1 year

Credit: 20 credits

UC/CSU Category: None

**Prerequisite:** 16 years of age, employed & completion of appropriate forms

This course provides students with opportunities for applying the basic skills of reading, writing, and computation through a combination of supervised employment in any occupational field and related classroom instruction. The WEE program is part of a total educational process that: helps students to choose a career path wisely; prepares them for full-time employment suitable for their abilities and interests; and affords students the opportunity to learn to work with others in ways that are successful and rewarding. Students must be 16 years of age and employed at an acceptable job station. Enrollment forms must be returned to the Director of Work Experience within three (3) school days for final approval. Adjustments in student programs will be made if necessary. Students must be enrolled in a minimum of four other academic courses in addition to one or two periods of work experience. Students are required to attend related instructional classes held each week on a designated day at 7:00 a.m. A maximum of 40 credits of work experience will be allowed to count towards the graduation requirement of 220 total credits.

## LAB ASSISTANT

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** Completion of the lab science class for which you will assist & teacher approval and contract signed

Students will assist the teacher during laboratory activities. Furthermore, each student is required to conduct a research project. A maximum of 10 credits from any combination of teacher's aide, office aide, library aide, etc., may be applied toward graduation. These credits can only be earned during the 11th or 12th grade.

## TEACHER ASSISTANT

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** Teacher approval and contract signed

Students may assist the teacher in preparation of learning materials and help the instructor with typing, filing, and copying materials. A maximum of 10 credits from any combination of teacher's aide, office aide, library aide, etc., may be applied toward graduation. These credits can only be earned during the 11th or 12th grade.

## AVID 9 - 0110

Grade Level: 9

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** Application and Interview

The ninth grade AVID course is an elective class for students who are college bound. While concurrently enrolled in a four year college recommending course of study including appropriate honors level courses, students learn strategies to enhance success. To ensure success in coursework, students work individually, as well as in tutor-led collaborative groups. Note taking, outlining, writing, speaking, reading, test-taking strategies, and self-awareness are stressed. In addition, the course includes college motivational activities. The AVID Curriculum focuses on Writing, Inquiry, and Collaboration (WIC) through the AVID High School Libraries in both teacher and tutor led activities.

## AVID 10 - 0210

Grade Level: 10

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** AVID 9

The 10th grade AVID course is an elective class for students who are college bound. While concurrently enrolled in a four year college recommending course of study including appropriate honors level courses, students learn strategies to enhance success. To ensure success in coursework, students work individually, as well as in tutor-led collaborative groups. Note taking, outlining, writing, speaking, reading, test-taking strategies, and self-awareness are stressed. Career guidance and college testing and placement activities are emphasized in the 10th grade.

## Non-Departmental Courses

### **AVID 11 - 0310**

Grade Level: 11

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** AVID 10

The 11th grade AVID course is an elective course for students who are college bound. While concurrently enrolled in a four year college recommending course of study including appropriate IB level courses, students learn strategies to enhance success. To ensure success in coursework, students work individually as well as in tutor-led collaborative groups. Note taking, outlining, writing, speaking, reading, test-taking strategies, and self-awareness are stressed. In addition, the course includes career guidance and college motivational activities. The AVID Curriculum focuses on writing, inquiry, and collaboration through the AVID High School Libraries in both teacher and tutor led activities.

### **AVID 12 - 0410**

Grade Level: 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: g-Elective

**Prerequisite:** AVID 11

The 11th grade AVID course is an elective course for students who are college bound. While concurrently enrolled in a four year college recommending course of study including appropriate IB level courses, students learn strategies to enhance success. To ensure success in coursework, students work individually as well as in tutor-led collaborative groups. Note taking, outlining, writing, speaking, reading, test-taking strategies, and self-awareness are stressed. In addition, the course includes career guidance and college motivational activities. The AVID Curriculum focuses on writing, inquiry, and collaboration through the AVID High School Libraries in both teacher and tutor led activities.

### **AVID TUTORING - 8130**

Grade Level: 11, 12

Course Length: 1 year

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** Must be recommended by the IB Coordinator, district AVID coordinator, or AVID Teacher

AVID tutoring is a full year course for one period per day to assist AVID teachers at either the middle schools or Tracy High in working with students who need help in improving their study skills and academic performance in the areas of English, math, social studies, and science. To become an AVID tutor, interested students must have good study skills, good grades, and the desire to help others to be successful in a challenging environment. Additionally, all potential AVID tutors must be focused on four year college and already passed the High School Exit Exam. Students must be recommended by their teachers and counselors and must participate in 16 hours of AVID tutor training during the summer prior to tutoring the AVID class. For more information about the AVID class see the AVID 9th and 10th grade course descriptions.

## Non-Departmental Courses

### **SATURDAY SCHOLAR SEMINAR - 5311**

Grade Level: 10

Course Length: 1 year ONLY MEETS TWICE A YEAR

Credit: 10 credits

UC/CSU Category: None

**Prerequisite:** Enrolled in Ag/Science Academy courses sophomore year.

This course is designed for the Academy sophomore student to broaden and improve their understanding of various careers by attending one hour sessions presented by professionals in various fields such as Wildlife Biologist, Molecular Biologist, Physical Therapy, Veterinarian, Radiologist, Nursing, Environmental Scientist, and Ag Production. Students must attend 4 out of the 8 presenters and submit a one-page typed review for 5 units of Tracy High School credit. This is one of the 3 Ag/Science Academy requirements for graduation of the Academy program.

### **Ag/Science JUNIOR PROJECT - 5308**

Grade Level: 11

Course Length: Zero Period, 1 semester only

Credit: 1.5

UC/CSU Category: None

**Prerequisite:** Ag/Science Academy junior

This course meets one day a week at 7:00 am with the Academy Coordinator. This course is required of all junior level Ag/Science Academy students who are planning on completing the Academy program. This class will provide for weekly checkpoints on the student's individual project and provide instruction on how to complete this project. Students will manage the actual project outside of class on their own time and complete the project by the specified due date. The grade for the class will be based on attendance and class participation.

### **Ag/Science SENIOR PROJECT - 5309**

Grade Level: 12

Course Length: Zero Period, 1 semester only

Credit: 1.5

UC/CSU Category: None

**Prerequisite:** Ag/Science Academy senior

This course meets periodically through appointments with the Academy Coordinator. This course is required of all Senior level Ag/Science Academy students who are planning on completing the Academy program. This class will provide for regular checkpoints on the student's individual project and provide instruction on how to complete this project. Students will manage the actual project outside of class on their own time and complete the project by the specified due date. The grade for the class will be pass/fail and based on the student's successful completion of Academy requirements.

*Any student enrolled in the following Special Education Program must have an active Individual Education Plan (IEP) on file. Special Education courses do not meet the a-g UC requirements.*

## **ACC ENGLISH - 8231**

This course is designed to increase the student's basic understanding of language skills. Areas covered include: written expression, vocabulary, spelling, oral reading, silent reading, comprehension skills, grammar and paragraph construction and essay organization. Individual needs are met in a small group instructional setting. Any student enrolled in this course must have an active Individual Education Plan on file.

## **ACC MATH - 8233**

The resource specialist math program is an individualize program designed to meet the individual needs of each student. The goal of the program is the improvement of each student's basic math skills. This course will attempt to make each student proficient in the four basic areas of calculations of whole numbers. Students will also become proficient with fractions, decimals, measurements and consumer math. Basic concepts in algebra will also be presented to students that have successfully progressed through each of the areas mentioned. Students will also be expected to complete daily homework assignments. Promotion to the next math level will depend upon the student's successful completion of RSP Math. RSP Math meets one of the two years of math requirements. Any student enrolled in this course must have and active Individual Education Plan on file.

## **ACC ALGEBRA - 8223**

**Prerequisite:** Junior or Senior and have an active IEP- Students who have passed RSP Math and/or failed Algebra 1

This course is designed to increase the student's understanding of numbers and operations, linear equations, exponents, polynomials, factoring and probability, problem solving, reasoning and proof, application of Algebra, solving of algebraic expressions, algebraic equations and expressions skills. This class uses an Algebra standards based curriculum. Any student enrolled in this course must have and active Individual Education Plan on file.

## **ACC TUTORIAL SUPPORT - 8200**

**Prerequisite** – Teacher Recommendation  
Grade level – 10, 11, 12

This course is designed to assist students with academic general education classes. Students are required to work daily on assignments from other academic classes. In addition, study skills may be incorporated to aid student learning. Students will receive support from the RSP teacher and Para Educator on an as needed basis. Any student enrolled in this course must have an active Individual Education Plan on file.

## **SPECIAL DAY CLASSES**

**Prerequisite:** All freshmen enrolling in one of the following courses must be current SDC students.

Special Day Classes are designed to help students with learning disabilities. A program is developed for each student to meet their individual needs. Any students enrolled in these courses must have an active Individual Education Plan on file.

Course offered within the Special Day Classes (SDC) are:

**Mod English 8258**-Increase reading, writing, and spelling skills.

**Mod Math- 8250**- Basic math skills, including the use of a calculator.

**Mod Algebra-8252**- Increase students' understanding of basic algebra concepts.

**Mod Social Studies** - Introduction to basic history concepts in World History-8235, U.S. History-8244, American government and Economics- 8239

**Mod Science** – Introduction to basic science concepts in Biology-8260, Physical -8241 and Earth Science-8315

**Mod ESL English as a Second Language-8289** – This course is designed to help students recognize survival vocabulary, English and improve oral language skills.

## **Mod SURVIVAL READING - 8280**

**Prerequisite:** Teacher Recommendation

In addition to Language, this course helps students recognize and understand survival vocabulary *Students in this course are working toward a Certificate of Completion and must have an active Individual Education Plan (IEP) on file.*

## **Mod SURVIVAL MATH - 8281**

**Prerequisite:** Teacher Recommendation

This course is designed to help students recognize coins and bills, count out specified amounts of money using coins and/or bills, and to learn how to make and count change. *Students in this course are working toward a Certificate of Completion. Any student enrolled in this course must have an active Individual Education Plan on file.*

## **Mod FINE ARTS AND LEISURE SKILLS - 8275**

**Prerequisite:** Teacher Recommendation

This course is designed to provide students with a variety of fine art curriculums and the opportunity to develop or fine tune skills in recreation or leisure time skills. *Students in this course are working toward a Certificate of Completion. Any student enrolled in this course must have an active Individual Education Plan on file.*

## **Mod SURVIVAL SCIENCE - 3128**

**Prerequisite:** Teacher Recommendation

This course is designed to help students discover Science in their daily lives. Topics to be covered include the planets and solar system, plants, animals, body systems, nutrition, health, hygiene and first aid. *Students in this course are working toward a Certificate of Completion. Any student enrolled in this course must have an active Individual Education Plan on file.*

## **Mod LIFE SKILLS - 8265**

**Prerequisite:** Teacher Recommendation

This course is designed to help students with daily skills. Areas to be covered include personal grooming, manners, healthy decision making, time and following directions. *Students in this course are working toward a Certificate of Completion. Any student enrolled in this course must have an active Individual Education Plan on file.*

## **CaliforniaColleges.edu**

Tracy Joint Unified School District has partnered with California Colleges. CaliforniaColleges.edu provides students with an all-inclusive guide for their college & career paths & enables educators to track their progress.

<https://www.californiacolleges.edu/#/>

## **California Community Colleges**

Students must have a high school diploma or be 18 years of age to be eligible for entrance into a community college. Students can earn a Certificate or an Associate's Degree, and take courses that will allow them to transfer to a 4-year college or to directly enter the work force. Students are able to attend community colleges throughout the state.

The SAT and ACT are not required for entrance into a community college. Apply online at [www.cccapply.org](http://www.cccapply.org)

## **California State University**

There are 23 CSU campuses, which all require a minimum of a 2.0GPA to apply. If a student has below a 3.0 GPA, they must meet the eligibility index: a combination of grades in "a-g" courses and SAT/ACT (with writing) test scores.

CSUs offer both Bachelor's and Master's degrees. Apply online at <https://www2.calstate.edu/apply>

## **University of California**

The UC system consists of 10 campuses. However, UC San Francisco is only open to graduate students. Students who apply for a UC must earn a GPA of 3.0 or better in the "a-g" courses, with no lower than a C-, and take the ACT (with writing) or the SAT (with writing). The UC system is very competitive, so it is recommended that your student take advantage of rigorous courses and extracurricular activities. UCs offer Bachelor's and Master's degrees and Doctoral programs. Apply online at <https://admissions.universityofcalifornia.edu>

## **Private and Out-of-State Colleges**

Private and Out-of-State schools have different admissions requirements from the UC/CSU systems. Students are encouraged to research requirements for each school and program as early as their sophomore year to ensure they have ample time to complete requirements. Apply online at <http://www.commonapp.org/>

or visit <http://www.aiccu.edu/>

## **Western Undergraduate Exchange Program**

The Western Undergraduate Exchange Program (WUE) offers reduced tuition rates at participating 2-year and 4-year public colleges. Visit the following website for a list of participating colleges and universities:

[http://wue.wiche.edu/search\\_results.jsp?searchType=all](http://wue.wiche.edu/search_results.jsp?searchType=all)

## **Military and Trade Schools**

To enlist in the military students must be 18 years old (or 17 with parental consent) and have a high school diploma. Students are encouraged to take the ASVAB in their junior or senior year.

Trade Schools are an excellent option for students who want to learn skills related to a specific job. Students who attend a trade school will enter the workforce within approximately two years of beginning a program. Students can attend a trade school for jobs such as a medical assistant, electrician, mechanic, welder, dental hygienist, and cosmetologist.

## **Career Technical Education (CTE)**

San Joaquin Office of Education's CTE program focuses on preparing students to enter current or emerging high-skill, high-wage, and/or high-demand occupations. CTE opportunities may be offered through linked learning programs, partnership academies, apprenticeship programs or orientation to apprenticeships, regional occupational centers or programs, tech prep programs, charter schools, small learning communities, or other programs that expose students to career options while preparing them for future careers in a given industry or interest area.

<https://www.sjcoe.org/CTE/>

**Visit the College and Career Readiness Center for more information.**