



Mater Dei High School
 1202 West Edinger Avenue
 Santa Ana, California 92707-2191
 714 / 754-7711

2009-2010 COURSE CATALOG

GRADUATION REQUIREMENTS

To receive a diploma from Mater Dei High School, students must successfully complete the following requirements:

Religious Studies	4 years	40 Credits
English	4 years	40 Credits
Mathematics	3 years	30 Credits
Science	2 years	20 Credits
Social Studies	3 years	30 Credits
(Including 1 yr. U. S. History; 1 semester U.S. Government)		
Modern Language	2 years same language	20 Credits
Additional Credits		55 Credits

Total: 235 Credits

Additional: 80-Hrs. Christian Service and Reflection Essay/Group Discussion (see below)

One of our graduation requirements is **80 hours of Christian/Community service** work that must be completed by the end of the senior year **including a Reflection Essay/Group Discussion**. The following schedule is to be followed: Freshman Year 5 hours completed by November and 10 hours completed by March; Sophomore Year 24 hours completed by November and 38 hours completed by March; Junior Year 52 hours completed by November and 66 hours completed by March; Senior Year 80 hours completed by November and **Reflection Essay/Group Discussion** completed by March. Students at any grade level may write the reflection essay if all required hours are completed. For more information, please call Campus Ministry (714) 850-9558 or visit the school's website at www.materdei.org.

If a student fails a course at the semester, he/she is expected to make up the course in summer school, which directly follows the completion of the year in which the failure is received.

All "F" grades on a transcript must be made up before a diploma will be issued. Any student who has three (3) or more "F" grades on his /her transcripts that have not been made up **will not walk** in the Commencement Exercises. He/she will receive a diploma only when the "F" grades are made up. Incompletes (I) must be made up no later than the following semester. If they are not made up, incompletes become "F" grades. If a student plans to make up "D" or "F" grades in the summer at a school other than Mater Dei, the student must obtain an off-campus permission form from the Counseling Office **prior to registering at the off campus site**. Upon the completion of the required course, a report card or official transcript must be submitted directly to the Registrar's Office. **All religion courses must be made up at Mater Dei's summer school.**

SCHOOL GRADES/GRADING SCALE

A = Excellent; B = Good; C = Average; D = Poor; F = Failure

A 100-90 B 89-80 C 79-70 D 69-60 F below 60

GPA is weighted for AP/Honors classes as follows: A = 5 B = 4 C = 3 D = 1 F = 0

ADVANCED PLACEMENT COURSES

In order to meet the needs of our academically talented students, the Technology and Business, Art, English, Foreign Language, Math, Music, Science, and Social Studies departments offer classes that prepare students for the College Board Advanced Placement Examinations.

Students must meet prerequisites and be recommended for these courses by their Technology and Business, Art, English, Foreign Language, Math, Music, Science, or Social Studies teachers, must pass the appropriate placement exams, and must have the approval of the respective Department Chair.

All students in Advanced Placement Courses (AP) are required to take the AP Exam in that subject and must pay the fee (\$95.00 per exam) by mid-November to the Guidance Office Secretary. A student who earns a 3, 4, or 5 on the AP Exam may receive credit and/or placement towards his/her B.S/B.A. degree. More than 1,400 universities admit students as instant sophomores because of AP Courses.

BASIC PROGRAM

FRESHMAN YEAR

1. Religious Studies
 2. English
 3. Mathematics
 4. Science
 5. Modern or Classical Language
 - Spanish
 - French
 - Latin (Space permitting)
 6. Performing or Visual Arts
 - Instrumental Music
 - Choir
 - Dance
 - Handbells
 - Art (space permitting)
 - Theatre Arts
 - Design
- OR** Other Freshman Electives
- Information Technology (1 Semester) &
 - Physical Education (1 Semester) or
 - Web Page Design (1 Semester)
 - Physical Education (year)
 - Color Guard
 - Pep Squad

JUNIOR YEAR

1. Religious Studies
2. English
3. Mathematics
4. United States History
5. Elective
6. Elective
7. Elective (Optional)

SOPHOMORE YEAR

1. Religious Studies
2. English
3. Mathematics
4. World History
5. Modern or Classical Language
6. Science
7. Specialty Electives (Optional)
 - Academic Decathlon
 - Athletic Training
 - Athletic P.E.
 - Visual Arts Courses
 - Instrumental Music
 - Color Guard
 - Choir
 - Handbell Courses
 - Pep Band
 - Dance Courses
 - Journalism Courses
 - Library Science
 - Television Production (MDTV)
 - Theatre Arts Courses
 - Yearbook Courses
 - Pep Squad

SENIOR YEAR

1. Religious Studies
2. English
3. American Government/ Economics
4. Elective
5. Elective
6. Elective
7. Elective (Optional)

Please refer to course description and prerequisites for all course requirements.

IMPORTANT HINTS FOR SCHEDULING

REGISTRATION FORMS WILL NOT BE ACCEPTED UNLESS ALL NECESSARY SIGNATURES ARE OBTAINED AND TWO ALTERNATE ELECTIVES ARE INDICATED.

IF YOUR REGISTRATION SHEET IS NOT TURNED IN BY THE ANNOUNCED DEADLINE, IT WILL BE MARKED LATE AND YOU WILL HAVE NO PRIORITY IN SELECTING YOUR ELECTIVES. EVERYONE MUST TURN IN A SCHEDULING FORM, EVEN IF THERE IS A CHANCE YOU MAY NOT ATTEND MATER DEI NEXT YEAR.

1. One very important element for success in your high school career is planning. This is the reason for this catalog. Read it over frequently and carefully so that you will have an overall idea of what courses you will need and want to take in your four years of high school.
2. You must realize that students **do not always get** the classes they request. This occurs because of one or more of the following reasons:
 - a. Two electives are sometimes offered at the same hour of the day.
 - b. Students are not eligible for the course.
 - c. The class becomes filled.
 - d. There are not enough requests for that course to offer a class.
 - e. Students in multiple Honors/A.P. courses may have to make a choice among these classes.
3. Get to know what the electives actually are. Talk to students who are presently taking these courses.
4. Select classes because of the subject matter, not because of particular teachers. Teachers may leave Mater Dei High School or they may change courses taught.
5. Juniors and Seniors planning to attend a college that is a member of NCAA, Divisions I and II only, should be aware of **NCAA requirements** (See following page). See your counselor for further information.
6. For the California State Universities and the University of California requirements, please see your counselor and the courses listed on pages 7-8 of this catalog.
7. ONCE YOU ARE PLACED IN A CLASS, YOU **MUST** REMAIN IN THAT CLASS UNTIL THE END OF THE SCHOOL YEAR.
8. There are NO TEACHER or BLOCK CHANGES allowed.

NOTE: A normal class size may be 30 students (approximately). No class can be less than 25 without specific authorization from the Principal obtained through the Assistant Principal/Academic Services.

Be certain, therefore, that your back-up choices are REALISTIC and are what you really would like to have, even, as a first or second choice. **ALWAYS MAKE TWO ALTERNATE COURSE CHOICES. THE SCHEDULING FORM WILL NOT BE ACCEPTED WITHOUT THE TWO ALTERNATES.**

Remember that your alternate courses that you chose may become your ACTUAL classes for the following year.

Prerequisites for any subject must be met at the end of the first semester and maintained at the end of the second semester.

NCAA Freshman-Eligibility Standards quick reference sheet



NCAA FRESHMAN-ELIGIBILITY STANDARDS QUICK REFERENCE SHEET

KNOW THE RULES:

Core Courses

- **NCAA Division I requires 16 core courses as of August 1, 2008.** This rule applies to any student first entering any Division I college or university on or after August 1, 2008. See the chart below for the breakdown of this 16 core-course requirement.
- **NCAA Division II requires 14 core courses.** See the breakdown of core-course requirements below. Please note, Division II will require 16 core courses beginning August 1, 2013.

Test Scores

- **Division I** has a sliding scale for test score and grade-point average. The sliding scale for those requirements is shown on page two of this sheet.
- **Division II** has a minimum SAT score requirement of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the four sections on the ACT: English, mathematics, reading and science.
- **All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.**

Grade-Point Average

- Only core courses are used in the calculation of the grade-point average.
- **Be sure** to look at your high school's list of NCAA-approved core courses on the Eligibility Center's Web site to make certain that courses being taken have been approved as core courses. The Web site is www.ncaaclearinghouse.net.
- **Division I** grade-point-average requirements are listed on page two of this sheet.
- **The Division II** grade-point-average requirement is a minimum of 2.000.

DIVISION I 16 Core-Course Rule

16 Core Courses:

- 4 years of English.
- 3 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 1 year of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy).

DIVISION II 14 Core-Course Rule

14 Core Courses:

- 3 years of English.
- 2 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 2 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 3 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy).

PLEASE NOTE: Beginning August 1, 2013, students planning to attend an NCAA Division II institution will be required to complete 16 core courses.

NCAA PG 2 - Other important information

OTHER IMPORTANT INFORMATION

- Division II has no sliding scale. The minimum core grade-point average is 2.000. The minimum SAT score is 820 (verbal and math sections only) and the minimum ACT sum score is 68.
- 14 core courses are currently required for Division II. However, beginning 2013, students will be required to complete 16 core courses.
- 16 core courses are required for Division I.
- The SAT combined score is based on the verbal and math sections only. The writing section will not be used.
- SAT and ACT scores must be reported directly to the Eligibility Center from the testing agency. Scores on transcripts will not be used.
- Students enrolling at an NCAA Division I or II institution for the first time need to also complete the amateurism questionnaire through the Eligibility Center Web site. Students need to request final amateurism certification prior to enrollment.

For more information regarding the rules, please go to www.ncaa.org. Click on "Academics and Athletes" then "Eligibility and Recruiting." Or visit the Eligibility Center Web site at www.ncaaclearinghouse.net.

Please call the NCAA Eligibility Center if you have questions:

Toll-free number: 877/262-1492.

NCAA Eligibility Center
05/07/08 LK:cr

NCAA DIVISION I SLIDING SCALE CORE GRADE-POINT AVERAGE/ TEST-SCORE New Core GPA / Test Score Index		
Core GPA	SAT Verbal and Math ONLY	ACT
3.550 & above	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58
2.750	720	59
2.725	730	59
2.700	730	60
2.675	740-750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840-850	70
2.425	860	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	80
2.125	960	81
2.100	970	82
2.075	980	83
2.050	990	84
2.025	1000	85
2.000	1010	86

NCAA APPROVED CORE COURSES AT MATER DEI

The NCAA Eligibility Center has approved the following courses for use in establishing the certification status of student-athletes from Mater Dei High School. NCAA regulations require each core course's content to be distinct. All courses must contain material that is at least 75% unique from other courses if a student-athlete wishes to use it to certify eligibility.

ENGLISH

211 LIT FORMS/COMP
212 ENGLISH I/HN
221 AMERICAN LITERATURE
222 ENGLISH II/HN
231 ENGLISH LITERATURE
232 ENGLISH III/HN
242 ENGLISH IV
243 ENGLISH IV/AP

MATHEMATICS

412 ALGEBRA I
413 ALGEBRA I/HN
416 ALGEBRA IA (.5 CREDITS MAXIMUM)
417 ALGEBRA IB (.5 CREDITS MAXIMUM)
420 PRIN. OF GEOMETRY
421 GEOMETRY
422 GEOMETRY/HN
428 ALGEBRA 2
429 ALGEBRA 2/TRIG
433 ALGEBRA II/HN
435 STATISTICS/SEM
436 TRIGONOMETRY/SEM
440 CALCULUS
441 PRE-CALCULUS
442 PRE-CALCULUS/HN
443 CALCULUS/AP
444 MATH FOR LIB. ARTS

SOCIAL STUDIES

330 EUROPEAN HISTORY/AP
331 WORLD HISTORY
332 US HISTORY
333 US HISTORY/AP
341 US GOVERNMENT/SEM
348 ECONOMICS/SEM
349 AMERICAN GOVT./AP
712 INTERPERSONAL
BEHAVIOR/SEM
941 PSYCHOLOGY/SEM

NATURAL/PHYSICAL SCIENCE

514 FOUNDATIONS &
CONCEPTS IN SCIENCE

520 BIOLOGY/HN (LAB)
521 BIOLOGY (LAB)
523 PRINC. OF BIOLOGY (LAB)
524 MARINE BIOLOGY (LAB)
526 BIOLOGY/AP (LAB)
530 PRINC. OF CHEMISTRY (LAB)
531 CHEMISTRY/HN (LAB)
532 CHEMISTRY (LAB)
534 EARTH SCIENCE (LAB)
542 HUMAN ANAT/ PHYSIOLOGY (LAB)
544 PHYSICS (LAB)
545 PHYSICS/AP (LAB)

ADDITIONAL CORE COURSES

152 COMP RELIGION/SEM
154 PHILOSOPHY/SEM
600 SPANISH I
601 SPANISH I/HN
602 SPANISH II
603 SPANISH II/HN
604 SPANISH II/A
605 SPANISH III
606 SPANISH III/HN
607 SPANISH LIT. IV/AP
608 SPANISH LANG. IV/AP
609 SPANISH I/BILINGUAL
610 SPANISH IV
611 SPANISH V
612 LATIN I
613 LATIN II
614 LATIN III
616 LATIN IV / AP
621 FRENCH I
622 FRENCH II
623 FRENCH II/HN
624 FRENCH III
625 FRENCH III/HN
627 FRENCH IV/AP
628 FRENCH IV

Courses to meet requirements for admission to the University of California System and Cal State University Systems are listed below. See the following website for more information: <https://pathways.ucop.edu/doorways/list>.

“A-G” Subject Requirements

a. SOCIAL STUDIES – 2 Years required.

Two years of history/social science, including one year of world history, cultures and geography; and one year of U.S. history or one-half year of U.S. history and one-half year of civics or American government

U.S. History, U.S. History (AP)
U.S. Government, U.S. Government (AP)
World History
European History (AP)
Economics

b. ENGLISH – 4 years required

Four years of college preparatory English that includes frequent and regular writing, and reading of classic and modern literature. Not more than two semesters of ninth-grade English can be used to meet this requirement.

English I - Literary Form and Composition
English II - American Literature
English III - English Literature
English IV
English I (H), English II (H), English III (H), English IV (AP)

c. MATHEMATICS – 3 years required, 4 years recommended

Three years of college preparatory mathematics that includes the topics covered in elementary and advanced algebra and two- and three-dimensional geometry. Approved integrated math courses may be used to fulfill part, or this entire requirement, as may math courses taken in the seventh and eighth grades that your high school accepts as equivalent to its own math courses. (*may be used for “c” requirement)

*Algebra I, Algebra I (H), Algebra IA and 1B (2 years) = Algebra I
*Geometry, Geometry (H), or Principles of Geometry
*Algebra 2, Algebra 2/Trigonometry, Algebra II (H)
Pre-Calculus, Pre-Calculus (H)
Calculus, Calculus (AP)
Trigonometry
Statistics

d. LABORATORY SCIENCE – 2 years required, 3 years recommended

Two years of laboratory science providing fundamental knowledge in two of these three core disciplines: biology, chemistry, and physics. The latter two years of an approved three-year integrated science program may be used to fulfill this requirement. Not more than one year of ninth-grade laboratory science can be used to meet this requirement.

Biology or Principles of Biology or Biology (H) or AP Biology
Chemistry, Chemistry (H)
Physics, Physics (AP)
Human Anatomy and Physiology
Marine Biology

e. LANGUAGE OTHER THAN ENGLISH – 2 years required, 3 years recommended

Two years of the same language other than English. Courses should emphasize speaking and understanding, and include instruction in grammar, vocabulary, reading, composition and culture. Courses in language other than English taken in the seventh and eighth grades may be used to fulfill part of this requirement if your high school accepts them as equivalent to its own courses.

French I - IV, French II (H), French III (H), French IV (AP)

Latin I - IV

Spanish I - IV, Spanish I (H), Spanish II (H), Spanish III (H),

Spanish Language (AP), Spanish Literature (AP)

f. VISUAL AND PERFORMING ARTS – 1 Year required

One year of visual and performing arts chosen from the following: dance, drama/theatre, music or visual art.

Advanced Women's Ensemble, Chamber Singers (H), Men's Ensemble, Women's Ensemble, Handbell Ensemble

Art I, II, III, IV, Studio Art (AP), Art History, Art History (AP)

Beginning Band, Concert Band, Symphonic Band, Wind Ensemble, Percussion, String Ensemble

Ceramics I, II

Dance I, Dance II, Dance Choreography III

Design, Contemporary Media

Theatre Arts I, II, III

g. COLLEGE PREPARATORY ELECTIVES – 1 year required

One year (two semesters), in addition to those required in "a-f" above, chosen from the following areas: visual and performing arts (non-introductory level courses), history, social science, English, advanced mathematics, laboratory science and language other than English (a third year in the language used for the "e" requirement or two years of another language).

SOCIAL STUDIES (HISTORY/SOCIAL SCIENCE) - All courses listed under (a) Business Law/Economics, Psychology (semester course), Scripture, Comparative Religion (semester course)

ENGLISH - All courses listed under (b) plus the following: Journalism II, Speech I

ADVANCED MATHEMATICS - All courses beyond Advanced Algebra listed under (c) plus the following: Math for Liberal Arts, Computer Science(AP), Intro to Computer Programming

SCIENCE - All courses listed under (d) plus the following: Earth Science

OTHER - Philosophy (semester course), Peace and Justice (semester course)

NOTE:

Only the above underlined courses will be assigned extra honors credit: A=5, B=4, C=3 except D=1

Any Honors courses taken in freshman year will not be used to compute the UC or CSU G.P.A. However, all universities review freshman classes and encourage students to enroll in Honors classes.

COURSE DESCRIPTIONS

ALL COURSES ARE COLLEGE PREPARATORY UNLESS OTHERWISE INDICATED

RELIGIOUS STUDIES

RELIGIOUS STUDIES COURSES

FAMILY LIFE EDUCATION

The Religious Studies department offers a comprehensive two-week curriculum on each grade level that focuses on Scriptural roots, Catholic moral principles and theology, scientific knowledge, human values and sound methodology about family life. Its goal is to help students to internalize a Catholic sexual ethic.

SUBSTANCE ABUSE EDUCATION

This comprehensive two-week curriculum on each grade level enables students to evaluate risks of drug use, misuse, and abuse, in terms of physical, emotional, psychological and spiritual harm.

All Religious Studies courses incorporate the Diocese of Orange Department of Catholic Schools Outcomes for Safe Environment Curriculum Criteria, most especially in the Family Life and Substance Abuse Education courses.

111 RELIGIOUS STUDIES I - The Adolescent and Faith: An Introduction to the Catholic Faith

Year course required of all freshmen

Prerequisites: None

This course deals with the nature of adolescence and an understanding of the individual, relationships with others, and with God. Students will study the characteristics of growth and development as a teenager, the challenge of emerging faith, and life within the Christian community. Students will consider what is involved in responding to the Christian call as a teenager in today's world. The course will also include a study of the nature and meaning of Revelation, the sacraments and prayer, morality, Church history, and major biblical themes.

124 RELIGIOUS STUDIES II - Scripture

Year course required of all sophomores

Prerequisites: None

This course focuses on the history, literature, and religion of ancient Israel. It also examines the formation of New Testament literature and the life and teachings of Jesus in the context of contemporary historical and literary criticism of the Bible.

This class is accepted as an Elective for applicants to U.C. and California State Universities.

134 RELIGIOUS STUDIES III -Course I - Sacraments

Semester course required of all juniors

Prerequisites: None

This course guides the student to an understanding of concepts underlying the Catholic sacramental vision: sacramental awareness, grace, symbols, rituals, and prayer. It demonstrates the deeper meaning of the seven sacraments, showing the realities of human life celebrated by them, and identifies major developments in the history of the sacraments.

NOTE: Students must also sign up for #135, Ethics.

135 RELIGIOUS STUDIES III -Course II - Ethics

Semester course required of all juniors

Prerequisites: None

This course focuses on the study of the moral dimension of human life, moral norms and moral decision making as reflected in the Judeo-Christian Tradition. It includes applications to specific moral questions in the areas of human sexuality, reproductive technologies, capital punishment, euthanasia and physician assisted suicide, war and peace, and economic issues. It utilizes rigorous academic methodologies and assessments.

NOTE: Students must also sign up for #134, Sacraments.

Senior Religious Studies Classes

NOTE: Students must sign up for two of the following semester courses:

- #142 Christian Lifestyles**
- #152 Comparative Religion**
- #153 Peace and Justice**
- #154 Introduction to Philosophy: Great Thinkers of the Western World**
- #155 Religious Studies Aides**

142 RELIGIOUS STUDIES IV - Christian Lifestyles

One semester course open to all seniors

Prerequisites: None

This course explores the four basic types of lifestyle or vocation (single, married, religious and ordained) from the Catholic perspective of Scripture and Tradition. The course focuses on themes common to all lifestyles and vocations: a dream, identity/autonomy, love, communication, sexuality, lifelong learning, work, money/possessions, and leisure.

NOTE: Students must also sign up for #152 Comparative Religion, #153 Peace and Justice, #154 Introduction to Philosophy: Great Thinkers of the Western World, or #155 Religious Studies Aides.

152 RELIGIOUS STUDIES IV - Comparative Religion

One semester course open to all seniors

Prerequisites: None

This course introduces the student to the basic beliefs, symbols, styles of worship, and codes of conduct of five religious traditions: Hinduism, Buddhism, Judaism, Christianity, and Islam. All students are required to take a personal field trip to one of a variety of religious exhibits or places of worship designated by their teacher.

NOTE: Students must also sign up for #142 Christian Lifestyles, #153 Peace and Justice, #154 Introduction to Philosophy: Great Thinkers of the Western World, or #155 Religious Studies Aides.

This class is accepted as an Elective for applicants to U.C. and California Universities, and is NCAA approved.

153 RELIGIOUS STUDIES IV - Peace and Justice

One semester course open to all seniors

Prerequisites: None

This course focuses on contemporary socio-economic and political issues such as human rights, war, and poverty, from the perspective of the Gospel/Catholic Social teachings and utilizes rigorous academic methodologies and assessments.

Mandatory field trip to the Museum of Tolerance, Fee: \$30.00

NOTE: Students must also sign up for #142 Christian Lifestyles, #152 Comparative Religion, #154 Introduction to Philosophy: Great Thinkers of the Western World, or #155 Religious Studies Aides.

This class is accepted as an Elective for applicants to U.C. and California State Universities.

154 INTRODUCTION TO PHILOSOPHY: GREAT THINKERS OF THE WESTERN WORLD

One semester course open to seniors

This course surveys the questions and answers that have been of ultimate concern to all human beings throughout history. Students will investigate the aims, nature, and problems of philosophy. This course focuses on the theories proposed by various Western thinkers and on questions regarding the universe and our place in it, the nature of God, destiny, and of good and evil.

NOTE: Students must also sign up for #142 Christian Lifestyles, #152 Comparative Religion, #153 Peace and Justice, or #155 Religious Studies Aides.

This class is accepted as an Elective for applicants to U.C. and California Universities, and is NCAA approved.

155 RELIGIOUS STUDIES IV - Religious Studies Aides (10 Students maximum)

One semester course open to seniors

Prerequisites

1. Overall GPA of 3.0
2. GPA of 3.5 in Religious Studies
3. Permission of the Junior Year teacher
4. Signature of the Department Chair
5. Contract outlining course requirements signed by student and parent
6. Student must be available to meet with teacher at least once a week, before or after school.

This course gives an opportunity for seniors interested and talented in Religious Studies to aid Freshmen Religious Studies teachers in their classes. Activities include leading group discussions, tutoring students, assisting the teacher in correcting homework and exams, and researching designated topics for teacher presentations. The aide will be required to formulate lesson plans and present a full period lesson to the class on at least two occasions. At the Semester Final, the aide will be present to write a report based on prior research on a topic mutually agreed upon by the teacher and aide.

NOTE: Students must also sign up for #142 Christian Lifestyles, #152 Comparative Religion, #153 Peace and Justice, or #154 Introduction to Philosophy: Great Thinkers of the Western World.

ENGLISH

HONORS/ADVANCED PLACEMENT ENGLISH COURSE POLICIES

The Honors and Advanced Placement English Program at Mater Dei is composed of four rigorous courses demanding significantly more time and effort than the regular English classes. Therefore, it is important to understand the demands and the responsibilities of the program.

ADMISSION

Any student, who receives an "A" both semesters in college preparatory English, has an overall 3.5 GPA, receives a score of at least 5 on the departmental writing assessment, and passes the exam for admission to the Honors program, may be admitted to Honors or Advanced Placement. This test will be administered early in the second semester. The expectations of the program are explained to all prospective students. Students and parents will be required to sign a contract stating the class expectations on acceptance into the program.

HONORS AND ADVANCED PLACEMENT SUMMER ASSIGNMENT

All honors and AP students must complete the summer reading assignment of two to three (2-3) works of literature, satisfactorily complete the written summer assignment, and pass an exam on the literature given the first day of class. AP students must also turn in the required AP notebook reviews on the first day of class.

GRADE POINT REQUIREMENTS

In order to continue in the Honors and AP English program, the student must maintain a minimum grade of "B" both semesters in the Honors course. Failure to maintain the minimum means that the student will be placed in the regular college preparatory English class for the following school year.

ADVANCED PLACEMENT EXAM

Seniors taking Advanced Placement English **are required to take** the Advanced Placement Examination. The cost of exam is \$95.00.

ADMISSION OF STUDENT TO HONORS OR ADVANCED PLACEMENT DURING THE SUMMER (TRANSFER STUDENTS NEW TO MATER DEI)

Summer reading assignments for each level will be available in the Registrar's Office for new students. New students must meet the same requirements as other students. They must also take the essay test which will be read by the teacher of the particular year of the student. If that is not possible, the essay should be read and decided upon by the English Department Chair or the Honors coordinator.

ADMISSION OF STUDENTS TO HONORS OR ADVANCED PLACEMENT WHO TRANSFER INTO MATER DEI DURING THE SCHOOL YEAR.

A transfer student will be placed in a regular, college preparatory English class until tested and approved for Honors or Advanced Placement English.

ENGLISH COURSES

211 **ENGLISH I - Literary Forms and Composition**

Year course required of all freshmen except those enrolled in Honors English

Prerequisites: None

This course is an introduction to basic literary forms (the short story, the novel, the epic, poetry, and drama) designed to provide a background for further study in literature. The course includes study skills and grammar with emphasis on sentence structure, vocabulary skills and composition.

212 **HONORS ENGLISH I**

Year course open to freshmen

Prerequisites

1. Admission based on scores from Entrance Exam
2. Approval of the Department Chair
3. A passing score on the Honors Qualifying Writing Test may be required

This course serves as an introduction to the basic literary forms and terms and provides an opportunity for in-depth study of literature as well as complex levels of comprehension and response. The course also includes critical reading, analytical writing, vocabulary, and grammar.

Parents and student are required to sign a contract indicating an understanding that the course requires significantly more time and is significantly more challenging than the college prep course. Students must carefully complete the summer reading assignment and pass an exam on the summer reading.

NOTE: Students in Honors English must maintain a “B” in both semesters and a cumulative G.P.A. of 3.5 in order to be eligible for honors English the following year.

214 **FRESHMAN READING**

Year course open to freshmen

Prerequisites: Assignment of students by Department Chair and Assistant Principal/Academic Services. Students are assigned to this class based upon Reading Score on Entrance Exam and Summer School performance.

This two-semester reading program is designed to give students the opportunity to improve comprehension and vocabulary and to gain greater proficiency in critical thinking and organizational skills.

221 ENGLISH II - American Literature

Year course required of all sophomores except those enrolled in Honors English

Prerequisites: None

This course acquaints the student with the genres and techniques of the literature of this country. The course includes grammar, single and multi-paragraph essays, the term paper, vocabulary, and study skills.

222 ENGLISH II - Honors American Literature

Year course open to sophomores

Prerequisites

1. Overall GPA of 3.5
2. "A" in both semesters of college prep English I, a score of at least 5 on the departmental writing assessment, and a passing score on the Honors Qualifying test - OR- at least a "B" in both semesters of Honors English I
3. Approval of the Honors course instructor

This course in American literature approaches literary works with scholarly criticism and attention to detail. It is designed to be a step toward preparing students for the AP exam their senior year. The course includes critical reading, analytical writing, vocabulary, and grammar.

Parents and student are required to sign a contract indicating an understanding that the course requires significantly more time and is significantly more challenging than the college prep course. Students must carefully complete the summer reading assignment and pass an exam on the summer reading.

NOTE: Students in Honors English must maintain a "B" in both semesters and a cumulative G.P.A. of 3.5 in order to be eligible for honors English the following year.

231 ENGLISH III - English Literature

Year course required of all juniors except those enrolled in Honors English

Prerequisites: None

This course is a study of the major works of English literature from the Anglo-Saxon period to the present day. In addition to the study of literature, the course includes language study, (grammar, usage, and vocabulary) and writing (multi-paragraph essay and the research paper).

232 ENGLISH III - Honors English Literature

Year course open to juniors

Prerequisites

1. Cumulative GPA of 3.5
2. "A" in both semesters of college prep English II, a score of at least 5 on the departmental writing assessment, and a passing score on the Honors Qualifying test - OR- at least a "B" in both semesters of Honors English II
3. Approval of the Honors course instructor

This course focuses on masterpieces of English literature with emphasis on critical analysis. It is designed to be a step toward preparing students for the AP exam their senior year. The course includes critical reading, analytical writing, vocabulary, and grammar.

Parents and student are required to sign a contract indicating an understanding that the course requires significantly more time and is significantly more challenging than the college prep course. Students must carefully complete the summer reading assignment and pass an exam on the summer reading.

NOTE: Students in Honors English must maintain a "B" in both semesters and a cumulative G.P.A. of 3.5 in order to be eligible for honors English the following year.

242 ENGLISH IV - Senior English

Year course required of all seniors except those enrolled in AP English

Prerequisites: None

This course is designed to give students reading and writing skills which will help them to function well on the college level. Extensive work will be devoted to reading comprehension, critical thinking skills and writing a variety of essays.

The student will be taught to appreciate literature more fully through the study of different literary genres and a progression of themes that focus upon the individual, personal responsibility and the community. Special emphasis will be given to drama, short stories, and the novel. Through composition as well as literature studies, students will be encouraged to develop and articulate an informed coherent personal philosophy that addresses the major moral, philosophical, and ethical problems faced by modern society.

243 ENGLISH IV - Advanced Placement

Year course open to seniors

Prerequisites

1. Cumulative GPA of 3.5
2. "A" in both semesters of college prep English III, a score of at least 5 on the departmental writing assessment, and a passing score on the AP Qualifying test -OR- at least a "B" in both semesters of Honors English III
3. Recommendation of AP course instructor

This course offers the student a rigorous and in-depth study of literature to prepare the student for the Advanced Placement Examination. The course will cover a broad scope of the world's great literature. The student does extensive reading and critical writing.

Parents and student are required to sign a contract specifying the student's obligations in this class and indicating an understanding that the course requires significantly more time and is significantly more challenging than the college prep course. Students must carefully complete the summer reading assignment and pass an exam on the summer reading.

All students are required to take the Advanced Placement Examination in English Literature and Composition. The fee is \$95.00. Students have the option to take the Advanced Placement Examination in English Language and Composition as well.

SOCIAL STUDIES

SOCIAL STUDIES COURSES

330 SOCIAL STUDIES II - Advanced Placement European History

One year course open to Sophomores

Prerequisites:

1. Students enrolled in College-Prep English I (Literary Forms & Composition) or Honors English I must meet the following requirements:
 - a. Overall GPA of 3.5.
 - b. An "A" in both semesters of College-Prep English I OR a "B" or better in both semesters of Honors English I.
 - c. Passage of the AP Qualifying exam in the spring with a score of not less than 70%.
2. To remain enrolled in the course, all students must complete the summer assignment and earn a passing score on the test to be given on the first day of class.

This course begins with an overview of the Middle Ages, then continues with an in-depth study of events ranging from the Renaissance through the Cold War. This course is a preparation for the national Advanced Placement Examination in European History, and all students are required to take this examination. Parents and students are required to sign a contract specifying the student's obligations in this class. The expenses involved in this course include the purchase of a text, a workbook, and a materials fee (approx. \$120), as well as an AP Test fee of \$95. Students will be assigned specific homework over the summer.

331 SOCIAL STUDIES II - World History, Culture and Geography

Year course required of Sophomores except those enrolled in Advanced Placement European History

Prerequisites: None

This course deals with the major forces in human history, particularly those of Western Civilization, which have influenced the world we know today. A special emphasis is on the period beginning with the Industrial Revolution through to the modern era. Geographic concepts and skills are developed throughout the course.

332 SOCIAL STUDIES III - United States History and Geography

Year course required of Juniors except those enrolled in Advanced Placement United States History

Prerequisites: None

This course is a survey of the political, social and cultural movements in our history measured against a background of our nation's geography. Beginning with an overview of the Colonial, Revolutionary and Constitutional periods, it continues with major events of the nineteenth century. It examines the upheaval of the Civil War and Reconstruction as well as the social and political experiences leading into the twentieth century. The class also provides extended focus on the events of the twentieth century.

333 SOCIAL STUDIES III - Advanced Placement American History

Year course open to Juniors

Prerequisites:

1. Students who have at least a "B" in both semesters of AP European History are automatically qualified to enroll in AP United States History
2. Students enrolled in College-Prep World History must meet the following requirements:
 - a. Overall GPA of 3.5.
 - b. An "A" in both semesters of World History.
 - c. Passage of the AP Qualifying exam in the spring with a score of not less than 70%.
3. To remain enrolled in the course, all students must complete the summer assignment and earn a passing score on the test to be given on the first day of class.

The emphasis of this course is a varied study of different events in United States history. Among the goals are preparation for the national Advanced Placement Examination and the presentation of various views of historical happenings. This course is a preparation for the national Advanced Placement Examination in American History, and all students are required to take this examination. Parents and students are required to sign a contract specifying the student's obligations in this class. The expenses involved in this course include the purchase of a text, a workbook, and a materials fee (approx. \$160), as well as an AP Test fee of \$95. Students will be assigned specific homework over the summer.

341 SOCIAL STUDIES IV - United States Government

One semester course required of Seniors except those enrolled in Advanced Placement Government

Prerequisites: None

This course examines the theory and practice of the United States Constitution, with application to the operation of the national government today. Study is likewise given to the structure of state and local governments in California.

342 SOCIAL STUDIES IV - Economics

One semester course required of Seniors except those enrolled in Advanced Placement Government

Prerequisites: None

This course is a study of economics on a global scale. Students will examine the economic problems and institutions of the nation and world in which they live. Students will learn how to make reasoned decisions on economic issues as citizens, workers, consumers, business owners and managers, and members of civic groups. Fundamental Economic Concepts, Microeconomics, Macroeconomics, and the study of comparative economic systems operational in the world today will be covered. Measurement concepts and methods will be developed.

349 SOCIAL STUDIES - Advanced Placement American Government

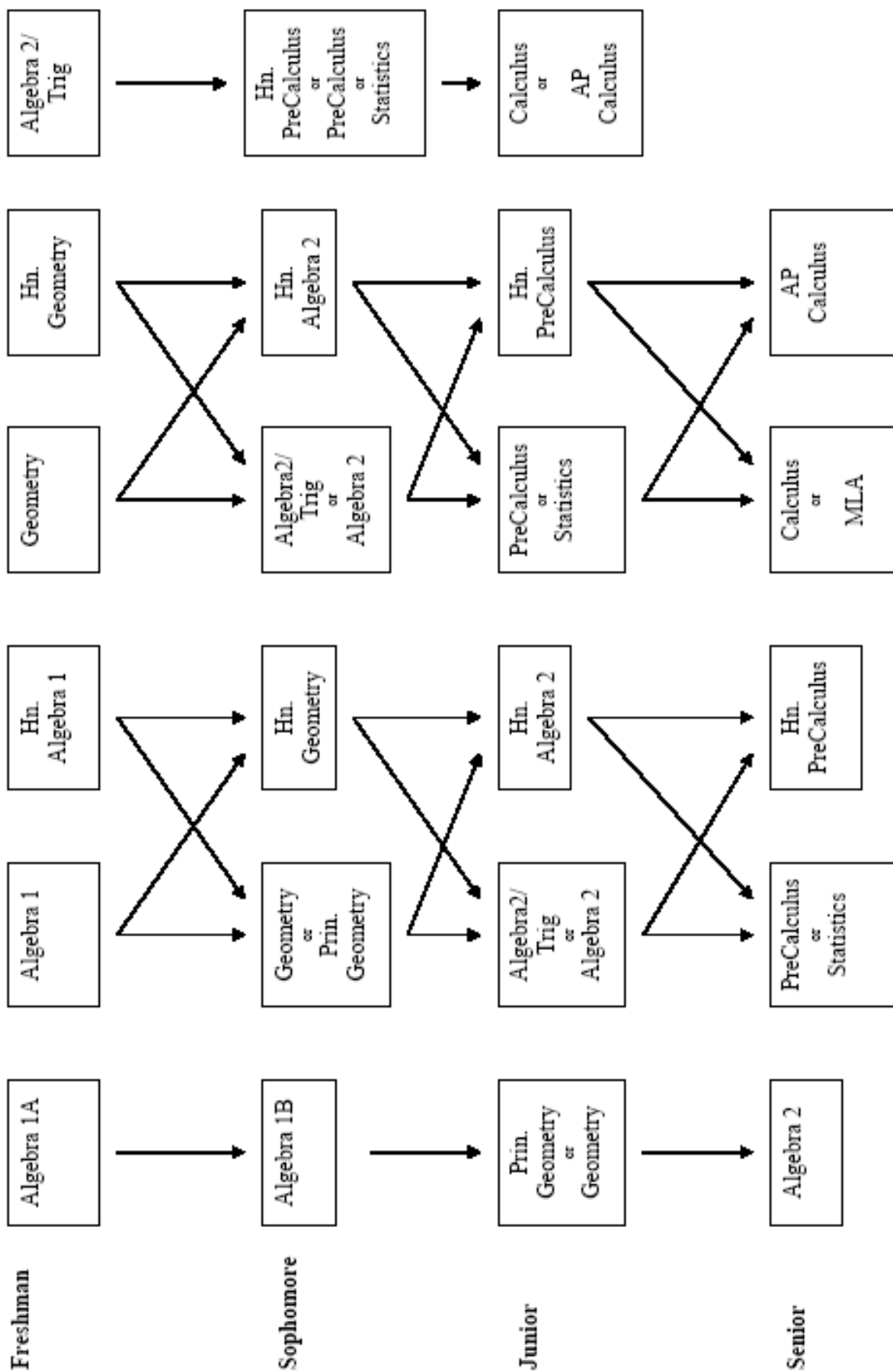
Year course open to Seniors

Prerequisites:

1. Students who have at least a “B” in both semesters of AP United States History are automatically qualified to enroll in AP Government
2. Students enrolled in College-Prep US History must meet the following requirements:
 - a. Overall GPA of 3.5.
 - b. An “A” in both semesters of US History.
 - c. Passage of the AP Qualifying exam in the spring with a score of not less than 70%.
3. To remain enrolled in the course, all students must complete the summer assignment and earn a passing score on the test to be given on the first day of class.

This course examines the theory and practice of the United States Constitution, with application to the operation of the national government today. Students will examine the sources of political power/authority, the relationships between state, society and citizens as well as political institutions and frameworks. This course is a preparation for the national Advanced Placement Examination in American Government, and all students are required to take this examination. Parents and students are required to sign a contract specifying the student’s obligations in this class. The expenses involved in this course include the purchase of a text, a workbook, a monograph, and a materials fee (approx. \$150), as well as an AP Test fee of \$95. Students who meet the prerequisites and enroll in this course will be assigned specific homework over the summer.

Mater Dei High School Mathematics Program



MATHEMATICS

MATHEMATICS COURSES

PLEASE NOTE: All students must meet the prerequisites for each succeeding mathematics course before enrollment will receive final approval. **These prerequisites are explained in each course description. All Mathematics courses listed in this catalog are accepted by the colleges, in fulfillment of their math requirements. All Mathematics courses are one (1) year in length.**

No Math courses may be taken over the summer to advance to the next level (except Algebra 1B and Pre-Calculus).

412 ALGEBRA I

Year course open to freshmen who have scored between 8.0 or above on the Entrance Exam and have achieved a “C” or above in their 8th grade math class.

Prerequisites: Placement of freshmen into Algebra I is dependent primarily on the student’s 8th grade math class grades and score on the Entrance Exam

This course is designed to encourage students to reach a higher level of mathematical understanding and to promote critical thinking in a broad range of situations. In addition, this course will help students realize the need for Algebra in non-academic settings and will lead to a familiarity with the real number system by applying the various manipulative skills taught. **Calculators will not be used in this class.**

413 HONORS ALGEBRA I

Year course open to freshmen

Prerequisites: A minimum of 9.5 in Mathematics on the Entrance Exam plus 80% or above on the placement test to be administered in May and successful completion of the summer assignment.

This course is designed for students who are able to move at an above-average rate in possible preparation for the Honors Geometry course and subsequent Honors Program. Students will cover approximately 25 percent more material than the regular Algebra I students, and there will be an emphasis on developing strong writing skills. **Calculators will not be used in Algebra 1A and Algebra 1B.**

416 ALGEBRA 1A

First year of a two-year course, open to freshmen

Prerequisites: None for freshmen

First year of a two year, integrated Algebra I course designed to encourage students to reach a higher level of mathematical understanding and to promote critical thinking in a broad range of situations. This course will help students realize the need for Algebra in non-academic settings and will lead to a familiarity with the real number system by applying the various manipulative skills taught. In addition to the basic algebraic skills being taught, selected Geometry topics are “connected” to algebraic topics so that the sometimes difficult transition to Geometry should be minimal. Students that successfully complete Algebra 1A and Algebra 1B will receive 2 years of math credit toward graduation. However, the colleges treat this as 1 year of college preparatory math. Students receiving an “A” or “B” in Algebra 1B will be eligible to enroll in regular Geometry with teacher recommendation. **Calculators will not be used at any time during the year of Algebra 1A and 1B.**

Students receiving a “C” or lower (even if made up in Summer School) will be scheduled into Principles of Geometry their junior year.

Students who take this course must also sign up for #417 - Algebra 1B the following year. Algebra 1B may be taken over the summer to advance to a Geometry course. Students must earn B’s or better both semesters of Algebra 1A to take Algebra 1B in the summer.

417 ALGEBRA 1B

Second year of a two-year course, open to sophomores

Prerequisites: Successful completion of Algebra 1A with a grade of “C” or better

The second year of a two year integrated Algebra I course (see Algebra I above).

420 PRINCIPLES OF GEOMETRY

Open to those students who have met the following prerequisites

Prerequisites:

1. Completion of Algebra 1A/1B with a minimum of a “C” in all four (4) semesters
2. Completion of Algebra 1 with a “C” or better in one of the two semesters. Any Algebra 1B or Algebra 1 student who has had to go to Summer School to meet the “C” requirement will only be eligible to enroll in Principles of Geometry.

The course content will vary slightly from the regular Geometry course and will not have a strong emphasis on proofs. Concepts will be developed intuitively through hands-on explorations and students will have opportunities to apply concepts to real-world situations. A scientific calculator is required.

421 GEOMETRY

Year course and open to incoming freshmen who have met the following prerequisites (see #3 below):

Prerequisites:

1. Algebra I with a grade of "C" or better each semester (students from Honors Algebra I are also required to have a minimum grade of "C"). Summer School grades do not fulfill this prerequisite.
2. Algebra 1A/1B with a grade of "B" or better for all four semesters. Summer School grades do **not** fulfill this prerequisite.
3. Entering Freshmen who achieve a 10.0 or above on entrance exam, have successfully completed a "documented" Algebra I course with a "B" or better and have passed the Math Department Geometry Placement Test to be administered in May.

This course presents geometric concepts from a deductive approach, beginning with basic definitions, postulates, and theorems. The students are taught techniques of direct proof as one means of examining properties of geometric figures and concepts. Congruence and similarity relations are studied, and numerical applications are integrated throughout the course. A scientific calculator is required

NOTE: Once you are enrolled in this class, it is not academically feasible to transfer into Principles of Geometry after the first four (4) weeks of the school year.

422 HONORS GEOMETRY

Year course

NOTE: All students must take a placement test to be administered in May, and receive a passing score (80%) to be eligible for this course

Prerequisites:

1. Honors Algebra I with a grade of "B" or better each semester, passing score on Placement Test given in May and successful completion of the summer assignment
2. Algebra I students that received a grade of "A" in both semesters, passing score on Placement Test given in May and successful completion of the summer assignment
3. Qualified Freshmen who have a minimum score of 10.5 on the Entrance Exam, have successfully completed a "documented" Algebra I course, a passing score on the Placement Test given in May and successful completion of the summer assignment

In addition to the content of Geometry, this course covers coordinate and solid geometry. The course is difficult and challenging with a strong emphasis on proof. Good study habits and logic skills are necessary. Test questions often require a creative approach to apply previously-learned skills to new situations. A scientific calculator is required.

428 ALGEBRA 2

Year course

Prerequisites:

1. Geometry or Principles of Geometry with a grade of “C” or better each semester
2. Algebra I or Algebra 1A/1B with a grade of “C” or better each semester

This is a two semester course in advanced algebra designed for students who intend to take four or more years of high school mathematics. The students will deepen and extend their understanding of the number system to include the complex numbers. There will be a strong emphasis on the study of linear, quadratic, exponential, and logarithmic functions and their graphs. A graphing calculator such as TI-83+ is required.

429 ALGEBRA 2 / TRIG

Year course open to students who have completed prerequisites

Prerequisites:

1. Algebra I with a grade of “B” or better both semesters. Students from Principles of Geometry are not eligible for this course.
2. Geometry with a grade of “B” or better each semester
3. Algebra I and Geometry **summer school grades may not** be used to meet the eligibility requirement.

This is a two semester course in advanced algebra designed for above average students. Students will expand their Algebra 1 knowledge with a strong emphasis on the study of linear, polynomial, quadratic, exponential, and logarithmic functions and their graphs. This course will include the Trigonometric functions, their identities, and proofs. The conic sections may also be covered. A graphing calculator such as TI-83+ is required.

433 HONORS ALGEBRA II

Year course open to students who have completed the following prerequisites

Prerequisites:

1. Grade requirements:
 - a. Honors Geometry with a grade of “B” or better each semester**OR**
 - b. “A” in Algebra I and an “A” in Geometry both semesters
2. A passing score (80%) on the placement test administered in May and successful completion of the summer assignment

This is a two semester course treating the topics of advanced algebra in depth. In addition to the usual material, students will study three-dimensional graphing, solution of higher order systems of equations by various methods, sequences and series, conic sections, exponential functions, logarithmic functions, polynomial functions and rational functions. A graphing calculator such as TI-83+ is required.

437 STATISTICS

Year course open to students who have completed prerequisites

Prerequisites:

1. Algebra 2 with a "C" or better each semester

NOTE: Seniors who do not meet these prerequisites by June can not become eligible through summer school.

This is a year long course to include descriptive statistics, probability, binomial and normal distributions, variation, linear regression, correlation and hypothesis testing. Applications are taken from natural sciences, social sciences, business, and everyday Life. A graphing calculator such as TI-83+ is required.

441 PRE-CALCULUS

Year course open to students who have completed prerequisites

Prerequisites:

1. Completion of Algebra 2/Trigonometry with a grade of "B" or better both semesters **or**
2. Completion of Honors Algebra II with a grade of "C" or better both semesters **or**
3. Receive a passing grade on Pre-calculus placement test in May
4. Students that do not meet the above prerequisites may qualify for Pre-Calculus with a minimum "B" grade in an approved "College Algebra" course completed at a community college.

This is a demanding two-semester course aimed at preparing the student for the study of Calculus. The topics include a full study of trigonometric, polynomial, rational, exponential, and logarithmic functions and an introduction to the theory of limits. There is a heavy emphasis on graphing as a tool for the understanding of functions. Excellent study habits are essential. A graphing calculator such as a TI-83+ is required. The TI-89 or TI-92 calculators are not allowed.

NOTE: This course may be taken in summer school at an accredited college by the student who wishes to complete Calculus before graduating from high school. Upon successful completion (a "C" or better) of summer school, the student must pass the Calculus placement test during the last week of August. If the student does not pass this test, he/she will be placed in Pre-Calculus. **Students that desire to take Pre-Calculus over the summer must notify their teacher and the Mathematics Department Chair prior to the end of the school year.**

442 HONORS PRE-CALCULUS

Year course open to students who have completed prerequisites

Prerequisites:

1. Grades of "A" in Algebra 2/Trigonometry both semesters and "B" both semesters in Honors Geometry **or**
2. Grades of "B" in Honors Algebra II both semesters and "B" or above in Honors Geometry both semesters **or**
3. Grades of "B" in Honors Algebra II both semesters and "A" in Geometry both semesters **or**
4. Grades of "A" in Algebra 2/Trigonometry both semesters and "A" both semesters in Geometry
5. Receive a passing score (80%) on placement test given in May and successful completion of the summer assignment

Topics described in Pre-calculus will be covered along with conic sections, polar graph sequences, and series and parameters equations. A graphing calculator such as TI-83+ is required. The TI-89 or TI-92 calculators are not allowed.

NOTE: Students who do not meet these prerequisites by June will not become eligible through summer school unless **PRIOR** arrangements have been made with the Mathematics Department Chair.

440 CALCULUS

Year course open to students who have completed prerequisites

Prerequisites:

1. A "C" or better in each semester of Pre-Calculus or Honors Pre-Calculus
2. A passing grade on the Calculus Readiness Test
3. Students with below a "C" in either semester of the Pre-Calculus course can qualify with a minimum grade of "C" in an approved Pre-Calculus course completed at a community college

This is a two semester course in single variable Calculus. The course covers limits, derivatives, and definite integrals of algebraic and transcendental functions and application of derivatives and integrals. Techniques of integration and integrals may also be covered. A graphing calculator such as TI-83+ is required. The TI-89 or TI-92 calculators are not allowed.

NOTE: This course is **NOT** designed to prepare the student for the AP Calculus Exam.

443 AP CALCULUS

Two-semester course

Prerequisites:

1. A "B" or better in each semester of Pre-Calculus and a passing score on the Calculus Readiness Exam which will be given in May.
2. Completion of the summer assignment and passing score on the test to be given on the first day of class.

NOTE: Students enrolling in this course are expected to take the AP Calculus Exam in May. Students earning a score of at least a 3 may receive credit or advanced standing at many universities. Check with the counseling office for the policy of specific colleges. Cost of AP Exam: \$95.00 (approx).

This is a 2 semester course in single variable Calculus. The course covers limits, continuity, derivatives, and integrals of algebraic and transcendental functions. All topics are approached from graphical, numerical, and analytical points of view. Students are expected to discuss concepts and solutions in writing. Applications of derivatives and integrals are presented, as well as solutions of separable differential equations. Techniques of integration are covered. If time permits, additional topics such as L'Hopital's Rule, improper integrals and approximation techniques are presented.

A graphing calculator such as TI-83+ is required. The TI-89 or TI-92 calculators are not allowed.

444 MATH FOR LIBERAL ARTS STUDENTS-"SURVEY OF MATHEMATICS WITH APPLICATIONS"

Two-semester course open to seniors.

Prerequisites: Completion of any of the following with a grade of "C" or better in both semesters: Algebra 2, Algebra 2/Trig, and Trig/Introduction to Statistics or Pre-Calculus.

This course is designed for students who wish to take a fourth year of mathematics and is accepted by the colleges as a Math elective. A variety of topics will be presented, emphasizing the practical aspects of mathematics. Students will be expected to read and write short essays on famous mathematicians and the history of mathematics. A scientific calculator is required.

Topics covered:

- 1st Semester: Algebraic review, critical thinking skills, symbolic logic, sets, probability
2nd Semester: Probability, statistics, voting and apportionment, and number theory

RECOMMENDED SCIENCE PATHWAYS

The following chart describes the recommended pathways that students are encouraged to follow in order to have a solid science background for acceptance into most colleges. The pathways start with one of two Freshman Science Courses determined by qualifying scores on the High School Entrance Exam and prior grades.

Both Academic tracks include at least one Life Science Course and one Physical Science Course. Many upper level science courses require previous math and science course grade requirements. To determine eligibility refer to the course prerequisites for the requirements to register for each course.

Freshman year	Earth Science	Biology Honors Biology
Sophomore year	Principles of Biology Biology Honors Biology	Chemistry Honors Chemistry Principles of Chemistry
Junior year	Chemistry Honors Chemistry Principles of Chemistry <u>Optional Course</u> Marine Biology	Physics <u>Optional Courses</u> Anatomy and Physiology A.P. Biology Marine Biology
Senior year	Physics Anatomy and Physiology A.P. Biology Marine Biology	Anatomy and Physiology A.P. Biology Marine Biology Physics A.P. Physics

SCIENCE

SCIENCE COURSES

534 EARTH SCIENCE

UC/CSU Approved g-Elective

Year course open to students who want a **physical** science college-preparatory lab elective.

Prerequisites

1. Qualifying score / grades
 - a. Incoming Freshman – Qualifying score on the High School Entrance Exam
 - b. All others - A grade of “C” or better in Biology OR Principles of Biology
2. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This course is an in-depth study of Earth’s place in the universe, dynamic Earth processes, energy in the Earth system, biogeochemical cycles, structure and composition of the atmosphere and California geology. The course includes demonstrations, student laboratory and computer based exercises. This is not a math oriented science course.

520 HONORS BIOLOGY

UC/CSU Approved d-Laboratory Science (Course approved for extra honors credit: A=5, B=4, C=3.)

Year course open to sophomores and qualified freshmen wanting an accelerated college-preparatory laboratory science.

Prerequisites:

1. Qualifying score / grades
 - a. Incoming Freshman – Qualifying score on the High School Entrance Exam
 - b. All Others- A Qualifying score on the Honor’s Biology entrance exam AND
 - i. A grade of “A” in Earth Science, and
 - ii. A grade of “A” in Algebra I or “B” in Honors Algebra
2. Concurrent enrollment in Geometry or higher level of math
3. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This accelerated course covers biological concepts in depth, with an emphasis on higher developmental thought processes and problem solving. It includes a study of the use of the scientific method, important laboratory skills including microscopy, biochemistry, cell structure and function, cell metabolism, homeostasis, genetics, DNA biology, protein synthesis, biotechnology, virology, and bacteriology, classification, evolution, comparative animal systems, and a survey of the six Kingdoms.

NOTES:

- This course **requires** participation in animal dissections.
- There will be a summer assignment provided. Students who fail to meet this summer assignment requirement will be transferred to Sophomore Biology (regular college preparatory course.)

521 **BIOLOGY**

UC/CSU Approved d-Laboratory Science

Year course open to sophomores and qualified freshmen wanting a college-preparatory laboratory science.

Prerequisites:

1. Qualifying score / grades
 - a. Incoming Freshman – Qualifying score on the High School Entrance Exam
 - b. All others - A grade of “B or better in Earth Science
2. Concurrent enrollment in Geometry or higher level of math
3. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This course covers biological concepts with an emphasis on problem solving. It includes using the scientific method and basic laboratory skill development including the use of microscopes. Students will explore the cell structure and function, chemistry of the cell, homeostasis, genetics, evolution, and classification of the six Kingdoms of life.

NOTE: This course **requires** participation in animal dissections.

523 **PRINCIPLES OF BIOLOGY**

UC/CSU Approved d-Laboratory Science

Year course open to sophomores, juniors and seniors who need a lab science to graduate

Prerequisites:

1. A grade of “C” or better in Earth Science
2. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This course covers the basic concepts of life science with laboratory exercises. This course will help to build the foundations necessary to succeed in the college-preparatory courses. It does not cover the material in as much depth or require as high a learning level as the other Biology courses do. This lab science course will involve lab set-up and dissections.

NOTE: This course **requires** participation in animal dissection.

524 **MARINE BIOLOGY**

UC/CSU Approved d-Laboratory Science

Year course recommended for students wanting a 3rd or 4th year of laboratory (**biological**) life science.

Prerequisites:

1. A grade of “C” or better in Biology OR “B” or better in Principles of Biology
2. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This course introduces students to Marine Biology. The emphasis is on the importance of the physical and chemical environment to the organisms of the sea. This course takes a close look at the diversity of marine organisms and their functional morphology. This Marine Biology course looks at the many ways in which humans interact with the ocean world and how humans use and impact the marine life. Laboratory activities include dissections, experimentation, data collection, and analysis to develop scientific investigation and scientific thinking skills. **NOTE:** This course **requires** participation in animal dissections.

526 ADVANCED PLACEMENT BIOLOGY

UC/CSU Approved d-Laboratory Science (Course approved for extra honors credit: A=5, B=4, C=3)
Year course open to highly motivated juniors and seniors wanting a college level, second year in the study of Biology with the goal of earning A.P. College Credit in Biology.

Prerequisites:

1. Qualifying grades
 - a. A grade of "B" or better in Honor's Biology OR an "A" in Biology
 - b. A grade of "B" or better in all Math, English, and Chemistry classes
2. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This course extends in breadth and depth the basic biological concepts presented in the Honors Biology course to a level of study commensurate with a second year course in college Biology for college Biology majors and prepares the student to take the Advanced Placement Exam in Biology.

This course of study emphasizes the development of college level science reading, seminar style student presentations, college level laboratory skills, problem solving, and expository science writing in preparation for the Advanced Placement Exam in Biology.

NOTES:

1. A minimum of 25 students are required for this class to be offered.
2. A **mandatory** dissection of the fetal pig is an integral part of this course.
3. All students are **required** to take the Advanced Placement Exam – Fee: \$95.00. There is also a non-refundable laboratory materials fee of approximately \$25.00.

531 HONORS CHEMISTRY

UC/CSU Approved d-Laboratory Science (Course approved for extra honors credit: A=5, B=4, C=3)
Year course open to students wanting an accelerated college-preparatory laboratory science. Not available to those who have already completed Chemistry.

Prerequisites:

1. Qualifying score / grades
 - a. A Qualifying score on the Honor's Chemistry entrance exam
 - b. A grade of "A" or better in Biology
 - c. A grade of "A" or better in Algebra I **AND** a "B" or better in Geometry
(Summer school math grades **may not** be used to meet the eligibility requirement)
2. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This accelerated course goes into more depth and places an emphasis on higher developmental thought processes. It includes study of the basic laws of chemistry. Atomic theory, the periodic law, chemical bonding, balancing chemical equations, gas laws, stoichiometry, acids, bases, kinetics, equilibrium, and redox reactions are covered. This class includes demonstrations and accelerated laboratory exercises. This lab science course will involve lab set-up and study in class.

532 CHEMISTRY

UC/CSU Approved d-Laboratory Science

Year course open to students wanting a second year college-preparatory lab science.

Prerequisites

1. Qualifying grades
 - a. A grade of "B" or better in Biology or "A" in Principles of Biology
 - b. A grade of "B" or better in Algebra I AND a "C" or better in Geometry
(Summer school math grades may not be used to meet the eligibility requirement)
2. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This course is a physical laboratory study of the basic laws of chemistry, atomic theory, the periodic law, chemical bonding, balancing chemical equations, gas laws, stoichiometry, acids, bases, kinetics, equilibrium, and redox reactions. The course includes demonstrations and student laboratory exercises.

530 PRINCIPLES OF CHEMISTRY

UC/CSU Approved d-Laboratory Science

Year course open to juniors and seniors who need a **physical** science lab course to graduate

Prerequisites

1. A grade of "C" or better in Biology or Principles of Biology
2. A grade of "C" or better in Algebra 1 (1A/1B) or higher math
3. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This course is an introduction in concepts of modern chemistry. The course emphasizes the structure of the atom and atomic theory, solutions and equilibrium, periodic properties, bonding, gas laws, stoichiometry, types of chemical reactions, acids and bases, kinetics and equilibrium. The laboratory work will develop students' reasoning power; provide an opportunity to apply chemical principles and chemical laboratory techniques.

542 HUMAN ANATOMY AND PHYSIOLOGY

UC/CSU Approved d-Laboratory Science

Year elective course open to students who have completed Honors Biology or Biology and Chemistry and want a third or fourth year college-preparatory lab biological science.

Prerequisites:

1. Qualifying grades
 - a. A grade of "B" or better in Biology OR "A" in Principles of Biology
 - b. A grade of "C" or better in Chemistry OR a "B" in Principles of Chemistry
2. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This course is an in-depth study of the anatomy of the human body and its functions. This course is of particular interest to those considering a health related profession. Emphasis will be devoted to the structure and functions of various organ systems to ensure recognition of the coordinated homeostatic functioning of the human body. The course is designed to develop an ability to understand the human body in such a way as to begin to effectively assess pathology. This is a college preparatory lab science course.

Note: This course **requires** participation in animal dissections.

544 PHYSICS

UC/CSU Approved d-Laboratory Science

Year course open to students who want a third or fourth year college preparatory lab science.

Prerequisites:

1. Qualifying grades
 - a. Grades of "B" or better in Biology, Chemistry, and Algebra II / Trig
 - b. A grade of "B" in Pre-Calculus or Trigonometry OR concurrent enrollment in Pre-Calculus or Trigonometry
2. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

This course will utilize the student's mental processes of logic and problem solving and knowledge of mathematical manipulation. Physics is a basic science. In depth studies of other sciences are based upon physics concepts. It is the design of this course to enable the students to develop a method of solving problems that will involve more than just using the chapter equations to solve problems. The course covers Newtonian mechanics, fluid mechanics, thermal physics, electricity and magnetism, waves and optics, atomic and nuclear physics, and introduces relativity. Upon successful completion of this course, students may choose to take Advanced Placement Physics.

545 ADVANCED PLACEMENT PHYSICS

UC/CSU Approved d-Laboratory Science (Course approved for extra honors credit: A=5, B=4, C=3)
Year course open to students who want a third or fourth year college preparatory laboratory science with the goal of earning A.P. College Credit in Physics.

Prerequisites

1. Qualifying grades
 - a. Grades of A in all math and science courses with no more than one B grade
 - b. Concurrent enrollment in pre-calculus, calculus, or higher math course
2. Signature of Science Department Instructor on Mater Dei Class Scheduling Form

The Advanced placement study course will utilize the student's mental processes of logic and problem solving. Physics is a basic science. In depth studies of other sciences are based upon physics concepts. It is the design of this course to enable the student to develop a method of solving problems that will involve more than just using the chapter equations to solve problems. The laboratory aspect of the course will enable the students to learn and apply techniques in data acquisition and analysis. This course covers Newtonian mechanics; fluid mechanics and thermal physics; electricity and magnetism; waves and optics; atomic and nuclear physics; and intensive preparation for the AP Physics B Exam.

NOTES:

1. A minimum of 20 students are required for this class to be offered.
2. All students are required to complete a summer assignment which will be due on the first full day of class.
3. All students are **required** to take the Advanced Placement Physics B Exam in May

939 SCIENCE LAB ASSISTANT

Semester course - option of continuing into the second semester

This opportunity will only be available blocks 1-6 and there will be no more than one student per block. **This course is a credit-only course; no letter grade will be given.**

Prerequisites:

1. A grade of "B" or better in Biology and Chemistry
2. Recommendation of the Science Department Chair and Previous Science Teachers

This course is designed to provide experience for the students in working in the Laboratory setting while also developing possible skills as an educator. The students will be rotated through various science classes/labs helping to prepare and take down lab experiments as well as facilitating students in the classroom while performing these experiments. Each student will be expected to teach 2 topics at least during the semester. The student may also be involved in cooperative learning activities in the science classes & tutoring. The student will also be expected to help with organization of equipment and other miscellaneous duties related to running a laboratory.

Limited numbers may take this elective. This course does not meet UC science requirements. It is credit only (no letter grade will be given).

MODERN AND CLASSICAL LANGUAGES

MODERN AND CLASSICAL LANGUAGES REQUIREMENTS

1. Approval of your first year modern or classical language teacher is required to continue the second year of the same modern or classical language.
2. A “C” or better in Level I is required at the end of the first semester. A “C” or better must be maintained through June in order to progress to Level II.
3. To begin a new modern or classical language after two years, a student must have successfully completed two years of one modern or classical language with at least a grade of “C” at each semester.
4. Two years of the same modern or classical language are required in order to meet Mater Dei graduation requirements.

8th Grade Language Placement Test

Each year, twice during May, a Language test is administered to 8th graders who will be incoming Mater Dei freshmen. This test is primarily for students who have had previous language study in French, Latin, or Spanish in elementary school. The purpose of this test is to find out whether or not the student is capable of beginning a modern or classical language beyond the level 1. Based upon the results of this test the student will be placed in level I, Level 1 Honors or level II of his/her chosen modern or classical language.

MODERN AND CLASSICAL LANGUAGE COURSES

THE SPANISH PROGRAM

600 SPANISH I

Year course open to freshmen (sophomores, juniors and seniors, if qualified)

Prerequisites: None for freshmen

This course develops language skills through listening, speaking, reading, memorization of vocabulary, and exercises. The main goal of the course is oral communication.

601 HONORS SPANISH I

Year course open to freshmen (sophomores, juniors and seniors, if qualified.)

Prerequisites: 8th Grade Placement Test for freshmen (other grade levels, placement test)

This course is designed for students with some knowledge of Spanish. The course is covered at a faster pace than Spanish I and includes a greater variety of vocabulary and grammatical concepts.

609 BI-LINGUAL SPANISH (Spanish for Native Speakers)

Year course open to bilingual freshmen

Prerequisites: Oral/Written Placement Test

This course concentrates on reading and writing skills and is designed for students who speak Spanish in the home but have not had much formal instruction. It will assist the bi-lingual student in advancing in the basic skills of, reading, writing, and spelling. Students who obtain a "B" average in this class move on to Spanish III.

602 SPANISH II

Year course open to sophomores, juniors, seniors and freshmen if qualified.

Prerequisites:

1. Freshmen must pass department placement test
2. A "C" average in Spanish I
3. Signature of Spanish I teacher

This course continues to develop in depth, language skills through listening, speaking, reading, and writing. Also included are reading for comprehension and understanding correctly the materials covered. The main goal of the course is continued communication in Spanish.

603 HONORS SPANISH II

Year course

Prerequisites:

1. An "A" average in Spanish I
2. A "B" average in Honors Spanish I
3. A grade of 90% or better on Second Semester Spanish 1 Final.

This course continues to develop in depth, language skills through listening, speaking, reading, and writing. Also included are reading for comprehension and understanding correctly the materials covered. The main goal of the course is continued communication in Spanish.

604 SPANISH II A

Year course open to 10th and 11th grade students who had difficulty in Spanish I

Prerequisites: Signature of Spanish I teacher

This course will continue to develop language skills through listening, speaking, reading, and writing. This course satisfies the Mater Dei graduation requirement of two years of a modern or classical language, **BUT DOES NOT SATISFY COLLEGE ENTRANCE REQUIREMENTS.** Any students achieving a "B" average in this class may take Spanish II the following year.

605 SPANISH III

Year course open to sophomores, juniors and seniors, who have taken Spanish II as freshmen

Prerequisites:

1. A "C" average or better in Spanish II
2. A grade of 70% or better in the Second Semester Spanish II Final.
3. Signature of Spanish II teacher

This course offers continued practice opportunities in which reading and writing are provided to a greater extent than in Spanish II. At the same time, specific practice in speaking and listening continue to appear at a level of difficulty corresponding to the ever-accumulating content of the program.

606 HONORS SPANISH III

Year course

Prerequisites:

1. An "A" average in Spanish II
2. A "B" average in Honors Spanish II
3. A "B" average in Bi-Lingual Spanish
4. Signature of Spanish II or Bi-Lingual Spanish teacher

This course offers continued practice opportunities in which reading and writing are provided to a greater extent than in Spanish II. At the same time, specific practice in speaking and listening continues to appear at a level of difficulty corresponding to the ever-accumulating content of the program.

607 ADVANCED PLACEMENT SPANISH IV - LITERATURE

Year course open to juniors and seniors who have completed Spanish I, Spanish II and Spanish III

Prerequisites

1. Minimum of "B" average in Spanish III
2. Signature of Spanish III teacher
3. A passing grade on the Placement Exam (above 70%)
4. Completion of Summer reading assignment on Spanish Medieval Literature

This course provides specific reading practice using selections from literature of Spanish and Spanish-American authors. The main goal of the course is continued communication in Spanish. The College Board Advanced Placement Test must be taken in May for which there is a fee of \$95.00.

608 ADVANCED PLACEMENT SPANISH IV - LANGUAGE

Year course open to juniors and seniors who have completed Spanish I, Spanish II and Spanish III

Prerequisites

1. A "B" average in Spanish III
2. Signature of Spanish III teacher or Bi-Lingual teacher
3. A passing grade on the Placement Exam (above 70%)

The main goal of the course is continued communication in Spanish. The College Board Advanced Placement Test must be taken in May. Fee: \$95.00.

610 SPANISH IV

Year course open to juniors and seniors

Prerequisites:

1. A "C" average in Spanish III
2. Signature of Spanish III teacher

This course provides specific reading practice using selections from literature of Spanish and Spanish-American authors. The main goal of the course is continued communication in Spanish. It also provides a complete review of grammar covered in previous years.

THE LATIN PROGRAM

612 LATIN I

Year course open to freshmen only

Prerequisites: None

The student is introduced to Roman Civilization of the First Century AD by studying basic grammar, vocabulary, and cultural topics. Investigations range from the study of an inflected language such as nouns, verbs, adjectives and pronouns as well as adverbs and conjunctions to everyday Roman Life.

613 LATIN II

Year course open to sophomores, juniors and seniors

Prerequisites:

1. A "C" average at the end of both semesters of Latin I
2. Signature of Latin I teacher

Continued investigation of grammar, vocabulary, derivation and culture. In this year, the stratification of Roman Society will be studied as well as beliefs about ancient classical religion. Our travels take to Britain and to the city of Rome itself in the First Century AD.

614 LATIN III

Year course open to juniors and seniors

Prerequisites:

1. A "C" or better in Latin II
2. A grade of 70% or better in the Second Semester Latin II Final
3. Signature of Latin II teacher

The remaining grammatical structures will be investigated along with vocabulary and derivation of words from Latin into English. The personal life of the Romans and the society of the Classical and Silver Periods will be investigated. Reading will include the prose of authors Pliny and Tacitus and the poets Catullus, Martial and Ovid.

616 HONORS LATIN IV / LATIN IV

Year course open to juniors and seniors

Prerequisites:

1. A "B" in Latin III
2. Signature of Latin III teacher

Selections from Ovid's *Metamorphoses* and *Amores* are read in the Fall Semester. In the Spring Semester selections from the poetry of Catullus are read. Students will translate and investigate literary devices and examine the meters of these poems.

THE FRENCH PROGRAM

621 FRENCH I

Year course open to freshmen (sophomores, juniors and seniors, if qualified)

Prerequisites: None for freshmen

This course develops the basic language communication skills of listening, speaking, reading, and writing in French.

622 FRENCH II

Year course open to freshmen (sophomores, juniors and seniors, if qualified)

Prerequisites:

1. Freshmen must pass department test
2. A "C" average at the end of both semesters of French I or successful completion of Summer School
3. Signature of French I teacher

This course continues the learning of French with equal stress on each of the four general language skills and includes reading for comprehension.

623 HONORS FRENCH II

Year course

Prerequisites:

1. An "B" average in French I
2. Signature of French I teacher

This course continues the learning of French with equal stress on each of the four general language skills and includes reading for comprehension. These students are beginning to prepare for the AP Exam which they will take at the end of AP French IV.

624 FRENCH III

Year course open to juniors and seniors (sophomores only with specific permission and entry exam)

Prerequisites:

1. An average "C" or better in French II
2. A grade of 70% or better in the Second Semester French II Final
3. Signature of French II teacher

This course provides continued communication practice in French and studies French authors through readings and recordings. Participation in the County-Wide French Camp held twice a year is encouraged.

625 HONORS FRENCH III

Year course open to juniors and seniors (sophomores only with specific permission and entry exam)

Prerequisites

1. An average "B" or better in French II
2. Signature of French II teacher

This course provides continued communication practice in French and studies French authors through readings and recordings. These students are continuing their preparation for the AP Exam at the end of AP French IV. Participation in the County-Wide French Camp held twice a year is encouraged.

627 ADVANCED PLACEMENT FRENCH IV

Year course open to seniors (unless specific exception is made)

Prerequisites

1. A “B” average in Honors French III
2. Signature of Honors French III teacher
3. Minimum score of 70% on the Placement Exam held in May

Grammar is required. French History, poetry, and literature are studied and students read *Candide*. There is practice for the Advanced Placement exam throughout the nine months and every student is required to take the Advanced Placement Exam for which there is a fee of \$95.00. Participation in the County-Wide French Camp held twice a year is encouraged.

628 FRENCH IV

Year course open to seniors (unless specific exception is made)

Prerequisites:

1. A “C” average in French III
2. Signature of French III teacher

This course provides continued communication practice in French, and studies French authors through readings and recordings.

TECHNOLOGY AND BUSINESS

TECHNOLOGY AND BUSINESS COURSES

703 BUSINESS LAW

Second semester course offered to juniors and seniors

Students taking Business Law must also enroll in #704 Business Economics.

Prerequisites: None

Business Law is offered second semester with Business Economics in the first semester. This course offers the student a background in the legal aspects of courtroom procedures and everyday business affairs with particular emphasis on legal contracts, law enforcement and the courts, crimes, torts, political and civil rights, consumer rights and protection, law for business firms, and contract law regarding buying and selling. The student will expand his/her vocabulary and sharpen his/her ability to think analytically, systematically, and critically through case analysis. **This class is accepted as an elective for application to UC and CSU Campuses.**

704 BUSINESS ECONOMICS

First semester course offered to juniors and seniors

Prerequisites: None

Students taking Business Economics must also enroll in #703 Business Law.

In this course, students will learn how to apply the tools of economic analysis to personal, community, and national issues in becoming responsible citizens and effective decision-makers. Students will learn how the economy works, the basic elements of economics, and consumer economic issues. This course also includes the study of personal finance, including information on managing money and consuming responsibly. Students will also study entrepreneurship and gain an understanding of its function and positive impact on society. **This class is accepted as an elective for application to UC and CSU campuses**

707 AP COMPUTER SCIENCE

Year course open to juniors and seniors student who meet the prerequisites

Prerequisites

1. Grade of "B" or better in each semester of Algebra II
2. Completion of an application for this course
3. Instructor's signature

NOTE: There is a \$60.00 lab fee for this course. A minimum number of students are required for this class to be offered.

This course is designed as a first course in computer science; no prior programming experience is necessary. AP Computer Science emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development and is meant to be the equivalent of a first-semester college level course in Computer Science. It also includes the study of data structures, design, and abstraction. In this course students will be solving real-world problems by designing programs that are understandable, adaptable, and, when appropriate, reusable. In addition, an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course

This class is accepted as an elective for application to UC and CSU campuses. The College Board Advanced Placement Test must be taken in May. Fee: \$95.

726 INFORMATION TECHNOLOGY

Semester course

Prerequisites: None

NOTE: There is a \$30.00 lab fee for this course

This is a one-semester course designed to develop oral, written, and technological communication skills. Students use Microsoft Office 2007 (Word, Excel, PowerPoint, and Access) to master concepts and develop skills for use in business and academic contexts and apply what they have learned through projects and case studies. Using PowerPoint, students develop effective presentations and present with confidence. Students use Word to practice writing clear and concise documents, develop editing skills, and format research papers in MLA style. Students work with spreadsheets and charts in Excel and learn the fundamentals of databases with Access. In addition, all students learn basic file management techniques, privacy and security practices, and operating procedures for a networked personal computer. A typing speed of 35 – 40 words per minute is recommended.

721 INTRODUCTION TO COMPUTER PROGRAMMING

Year Course open to 9, 10, 11 and 12th grades

Prerequisites: Freshmen who want to register for this course must be concurrently enrolled in Algebra I or higher level math course.

NOTE: There is a \$60 lab fee for this course.

The human element is more important than the machine. As an introduction to computer programming, this course will help students learn to express themselves more creatively, develop problem-solving skills, and better understand the workings of the new technologies that will be a part of their future personal and professional lives. This is a hands-on course introducing students to programming concepts and programming style leading them to design and implement computer programs to solve problems. In addition to providing beginning programmers with a guide to basic general programming concepts and structure, the course includes topics such as looping, object-oriented design, inheritance, arrays, files and exception handling, and data structures. Students enrolled in this course will also be introduced to **Web programming using Macromedia Studio 8**. They will utilize proper web page design techniques to create and edit Web pages, incorporating text, images, video, animation, and other media.

It is recommended that students take Introduction to Computer Programming before enrolling in AP Computer Science.

This course is accepted as an elective for application to UC and CSU campuses.

PERFORMING ARTS

PERFORMING ARTS COURSES

INSTRUMENTAL MUSIC PROGRAM (BAND)

801 BEGINNING BAND

Year course open to all grade levels

Prerequisites: Signature of Band Director

Open to students with no previous experience in music. Students receive group instruction on band instruments. Students learn music theory at the basic level, including but not limited to aural (ear) training, scale structure, keys and key signatures, and vocal training. Students required to attend a live concert and to turn in a written observation of that concert. Students will learn to perform their instrument with the proper characteristic tone quality and sound. Students may perform in Marching Band. Parent involvement four times per year in Mater Dei Bingo program and one time per year in 1 other instrumental music fundraising events required for student participation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

803 CONCERT BAND

Year course open to all grade levels

Prerequisites

1. Audition
2. Signature of Band Director

This group performs an intermediate level of music. Students may perform in Marching Band. Students learn music theory at the intermediate level, including but not limited to aural (ear) training, compositional form and structure, and vocal training. Students required to attend a live concert and to turn in a written observation of that concert. Parent involvement four times per year in Mater Dei Bingo program and one time per year in 1 other instrumental music fundraising events required for student participation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

804 SYMPHONIC BAND

Year course open to all grade levels

Prerequisites

1. Audition
2. Signature of Band Director

This group performs a semi-advanced level of music. Students may perform in Marching Band. Students do perform in concert activities. Students learn music theory at the semi-advanced level, including but not limited to aural (ear) training, basic harmonic structure and analysis, and vocal training. Students required to attend a live concert and to turn in a written observation of that concert. Parent involvement four times per year in Mater Dei Bingo program and one time per year in 1 other instrumental music fundraising events required for student participation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

805 HONORS WIND ENSEMBLE

Year course open to all grade levels

Prerequisites:

1. Audition
2. Member of Marching Band
3. Signature of Band Director
4. Students are required to take private lessons

This group performs at all Marching Band and Concert activities. Students perform at an advanced level of music. Students learn music theory at the advanced level, including but not limited to aural (ear) training, harmonic structure and analysis, and vocal training. Students required to attend a live concert and to turn in a written observation of that concert. Students write a research paper and participate in a group project. Parent involvement four times per year in Mater Dei Bingo program and one time per year in 1 other instrumental music fundraising events required for student participation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

802 PERCUSSION ENSEMBLE

Year Course open to all grade levels

Prerequisites

1. Audition
2. Member of the Marching Band
3. Signature of Band Director

This group is a performing ensemble that performs at Concert activities as well as in the Marching Band. Students will learn to use a variety of different percussion instruments while performing at an advanced level of music. Students learn music theory at the advanced level, including but not limited to aural (ear) training, harmonic structure and analysis, and vocal training. Students required to attend a live concert and to turn in a written observation of that concert. Students write a research paper and participate in a group project. Parent involvement four times per year in Mater Dei Bingo program and one time per year in 1 other instrumental music fundraising events required for student participation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

810 STRING ENSEMBLE

Year course open to all grade levels

Prerequisites

1. Audition
2. At least 1 year experience
3. Signature of Band Director

String Ensemble is a one-year, performance class open to students with an intermediate performance level on an instrument. Students perform grade 3, 4, and 5 orchestral music literature (scale 1-6) for concerts and festivals. Students study theory and vocabulary used in orchestral literature. Students discover the historical concepts influencing various styles of orchestral music. Students will understand and demonstrate music as a way to create and communicate meaning and emotion. They analyze ensemble and individual performances related to their own instruments using appropriate musical language and critical listening skills. Guest clinicians and conductors are used throughout the course to extend the students' working knowledge and understanding of technical skills and music literature as well as to develop an awareness of the various facets of the music profession. Students refine their understanding of artistic and aesthetic valuing by writing critiques of live music concerts. Students enhance their communication and interpretation skills by collaborating with students from the other arts disciplines to successfully produce and perform in their own concerts. Parent involvement four times per year in Mater Dei Bingo program and one time per year in 1 other instrumental music fundraising event required for student participation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

806 MARCHING BAND

Semester course open to ALL grade levels.

Prerequisites:

1. Enrolled in Beginning Band, Concert Band, Symphonic Band or Wind Ensemble
2. Signature of Band Director

This group performs at all Marching Band events. No background in playing an instrument is necessary. No marching experience is needed. Performances include: all Mater Dei home football games and five weekend competitions. Additional after school rehearsal time is required on Tuesdays from 3:00 pm to 6:00 pm., on Thursdays from 2:30 pm to 5:30 pm from September through the end of November. Mandatory training sessions begin three weeks before school starts. Parent involvement four times per year in Mater Dei Bingo program and one time per year in 1 other instrumental music fundraising event required for student participation. **Students receive 10 credits in Physical Education for participation. (Students signing up for Marching Band should make sure that this is an 8th class period for them.)**

855 JAZZ BAND

Semester course open to ALL grade levels.

Prerequisites:

1. Minimum of one year's playing experience
2. Enrollment in Band Program
3. Audition
4. Permission of Instructor

Students will learn about jazz as an art form indigenous to America. Students will study playing styles and the history of blues, swing, latin, bebop, funk, and other jazz genre. Jazz band members perform at school events, various festivals and concerts, and are featured at Red Hot Jazz, which affords an opportunity for students to share the stage with professional jazz musicians. [Required for student participation: all band parents are required to be involved twice per semester in Mater Dei's Bingo program and in one other fundraising event.]

807 BAND ASSISTANT

Year course open to juniors and seniors

Prerequisites: Signature of Instructor

Students assist the Band Director and Band Staff. Duties include but are not limited to organizing the music library, assisting with mailings, basic data input, bingo supply, and inventory, organization of instrumental equipment and uniforms, and basic office work.

THEATRE ARTS PROGRAM

811 THEATRE ARTS I

Course open to freshmen, sophomores, juniors and seniors.

This is a course for students interested in learning about the various areas of theater arts. This course includes mandatory attendance at the Fall Play, Spring Play, and Shakespeare in the Grotto.

All students will need to purchase class materials including the textbook *The Stage and the School*, as well as tickets to the required productions. Students will be required to take notes, participate in activities, read the textbook, write research papers, write critiques, and perform in memorized acting scenes. They must always support their peers through out the creative and learning processes.

Theatre Arts I students are introduced to:

- | | | |
|-----------------------|--------------------|----------------------|
| * Improvisation | * Pantomime & Mime | * Voice & Diction |
| * Acting | * Scene Work | * Structure of Drama |
| * Varieties of Drama | * Theatre History | * Play Production |
| * Various Occupations | * Musical Theatre | * Set Design |
| * Lighting Design | * Sound Design | * Make-up Design |
| * Costume Design | * Play evaluation | |

Students will read the following scripts: A Raisin in the Sun/The Glass Menagerie/Our Town.
This course satisfies both UC and CSU Visual and Performing Arts requirement.

812 THEATRE ARTS II - Play Production

Year course open to sophomores, juniors and seniors

Prerequisites: Theatre Arts I grade B or above and teacher signature

This course will give the student increased opportunities in the area of memorized acting, design and production leadership positions. The student will do advanced work in the areas of make-up, stage management, wardrobe, sound, directing, lighting, and acting. Each student is required to participate with at least 60 active hours both semesters in either the cast or crew of the Fall Play, Spring Play, and Shakespeare in the Grotto. The student must purchase class materials, textbook and keep a notebook with all Theater Arts work in it. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

813 THEATRE ARTS III - Play Production

Year course open to juniors & seniors

Prerequisites: Theater Arts II with a B or above and teacher signature.

This course provides further opportunities for production leadership. The students will work with the Theater Arts II class but will be assigned individual projects based on their special interests in the area of theater. The student is required to either head a crew or be in the cast of the three all school plays. The student must purchase class materials, textbook and keep a notebook with all Theater Arts work in it. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

DANCE PROGRAM

816 DANCE I

Pre-requisites: None

This course is designed as a two semester, introductory course that provides students a foundation in dance. Students will begin to develop technical strength through the basic skills of ballet & jazz. Units of hip hop, tap & theatrical dance may also be introduced, time permitting. Elements of dance history, genre, terminology, critical analysis, and performance will be covered. Students will be introduced to basic production methods in preparation for a spring dance recital. A nutritional unit exploring basic nutritional concepts for teens regarding healthy eating habits, will also be included. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

832 DANCE II

Prerequisites: Fulfillment of Dance I or equivalent AND signature of instructor

This standard based, two semester course is designed to develop the creative horizons of dance students through the choreographic process, while continuing to develop intermediate technical skills in jazz. Elements of dance history, genre, terminology, critical analysis, and performance will be covered. Students will explore the use of mind & spirit as they relate to movement expression and expand their knowledge and understanding of performance, abstract form, musical components, and rhythms. A comprehensive nutritional unit will also be included. Mandatory performance at the spring dance recital is required. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

831 DANCE III/IV

Prerequisites: Audition in May

This is an intermediate to advanced level class taken in conjunction with after-school extra-curricular competitive Dance Team. This standard based, two semester course is designed to develop the creative horizons of dance students through the choreographic process, while continuing to develop advanced level technique in jazz & lyrical. Elements of dance history, genre, terminology, critical analysis, performance and competition will be covered. Students will explore the use of mind & spirit as they relate to movement expression and expand their knowledge of performance and competitive dance. A unit on staging and costuming for recital and competitive performance will be included. A comprehensive nutritional unit will also be included. Mandatory performances in the fall and spring recitals are required. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

837 DANCE TEAM

Year course open to 30 - 40 students on all grade levels

Prerequisites: Audition and enrollment in Dance I, II, or III

This class incorporates physical activity with dance techniques, stretching techniques, aerobic concepts and some weight lifting. This is a competitive class and is offered after-school. Students receive P.E. credit for this class. Parent involvement four times per year in Mater Dei Bingo program required for student participation. **Students taking this class should have eight (8) classes in their schedule.**

834 COLOR GUARD II

Year course open to students on all grade levels: **Offered Block 6 only**

Prerequisites:

1. Minimum of 2.0 GPA
2. Signature of the instructor

This class meets during last period and after school. The members perform at parades, football games, and field tournaments. Second semester we travel to competitions throughout California with our indoor floor team. The squad is selected on the basis of try-outs each spring. Parent involvement four times per year in Mater Dei Bingo program required for student participation. Students receive P.E. credit for this course.

Note: Color Guard also meets after school on set days of the week.

CHORAL PROGRAM

840 WOMEN'S ENSEMBLE

Year course open to all female students at all grade levels

Prerequisites: None

The Women's Ensemble consists of all women and functions as an introduction to choral singing. This group focuses on beginning to intermediate vocal techniques for the female voice found in a broad spectrum of musical styles. Basic music theory (construction of Major and Minor scales, interval identification, some chordal analysis) and sight-reading are important parts of this curriculum. The Women's Ensemble performs at school and community functions, participates in festivals and competitions throughout California, and occasionally goes on tour with the other groups. There is a \$405.00 choral fee to help with the purchase of new music, costuming, and transportation needs. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

841 MEN'S ENSEMBLE

Year course open to all male students at all grade levels

Prerequisites: None

The Mater Dei Men's Ensemble performs at major school functions and several concert sites throughout Southern California. This group focuses on beginning to intermediate vocal techniques for the male voice found in a broad spectrum of music styles. Basic to intermediate music theory (construction of Major and Minor scales, interval identification, some chordal analysis) and sight-reading (utilizing moveable 'do') are important parts of this curriculum. The Mater Dei Men's Ensemble performs at school and community functions, participates in festivals and competitions throughout California, and occasionally goes on tour with the other groups. There is a \$405.00 choral fee to help with the purchase of new music, costuming, and some transportation needs. Students who join this ensemble will be expected to take part in concerts and any special rehearsals that may be necessary. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

848 HONORS CHAMBER SINGERS

Year course open to sixteen to twenty-four juniors and seniors

Prerequisites:

1. Overall G.P.A. of 3.0
2. Signature of course instructor
3. One year in a Mater Dei performance ensemble
4. Auditions are held in May prior to the new school year. Auditions are held in three parts:
 - a. A vocal audition in front of a panel of judges
 - b. Students must pass an Aural Aptitude exam
 - c. Students must then pass sight-reading exam

The Mater Dei Chamber Singers is a highly specialized group dedicated to the art of fine choral music. The group is centered on mastering advanced vocal techniques as well as the performance of advanced musical styles. The Mater Dei Chamber Singers have built a strong reputation in the community as well as abroad. The heavy demand for concertizing requires a full time commitment to the group. The ensemble takes part in festivals and competitions throughout Southern California and the United States and will have the opportunity to travel. There is a \$415.00 choral fee to help cover the cost of new music, costuming, and transportation needs. Parents and students are required to sign a contract specifying the student's obligations in this class.

This course satisfies both UC and CSU Visual and Performing Arts requirement.

843 ADVANCED WOMEN'S ENSEMBLE

Year course open to all sophomore, Junior, and senior women. Freshmen women by recommendation of previous instructor and audition.

Prerequisites: Vocal audition required. Auditions are held in May prior to the new school year.

The Mater Dei Advanced Women's Ensemble is comprised of an advanced group of female singers dedicated to the art of choral music. This highly specialized group will focus on advanced vocal techniques for the female voice as well as learn and perform advanced choral music. The ensemble takes part in festivals and competitions throughout Southern California and the United States and will have the opportunity to travel. There is a \$405.00 choral fee to help cover the costs of new music, costuming, and some transportation.

This course satisfies both UC and CSU Visual and Performing Arts requirement.

844 HANDBELL ENSEMBLE

Year course open to all grade levels

Prerequisites: Approval and signature of the teacher

The Mater Dei Handbell Ensemble is one of the premier handbell choirs of Southern California. The choir rings sixty different bronze bells and up to thirty hand chimes. Previous experience in handbell ringing is not required since all ringing techniques are taught in class. The Mater Dei Handbell Choir goes on tour yearly to Las Vegas, Nevada. The Handbell Choir takes part in yearly festivals and is commonly asked to perform at ten to fifteen special city functions and ceremonies. Music theory is also taught in class allowing the students to advance in their ability to read and understand musical score. Instrumentalists and percussionists commonly take this course to improve their music reading skills. There is a \$405.00 fee to help cover the costs of new music, costuming and transportation needs.

This course satisfies both UC and CSU Visual and Performing Arts requirement.

VISUAL ARTS

VISUAL ARTS COURSES

825 ART HISTORY

Year course open to sophomores, juniors and seniors

Prerequisites: None

This course is a year-long class which primarily covers the history of Western art from the prehistoric period to the modern era, along with an introduction to non-Western cultures including China India, Mexico, etc. The course focuses on the history, evolution and direction of art and how art has influenced society and culture through the ages. In studying various works, students will develop their aesthetic perceptions by learning to use such thinking skills as observation, discrimination, comparison, contrast and imagination. Students will examine characteristics of art movements, historical eras and individual artists through the study of painting, sculpture and architecture. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

817 ADVANCED PLACEMENT ART HISTORY

Year course open to juniors and seniors

Prerequisites

1. Overall G.P.A. of 3.3
2. First Semester English grade of "A"
3. A minimum passing grade of 70% on an exam given in the Spring in order to qualify for enrollment in this class

This course will introduce students to a challenging and richly rewarding academic discipline. Students learn the vocabulary of the visual arts – painting, architecture, sculpture and photography – and will also study the historical periods during which individual masterpieces were created. Through the visual arts we are given a uniquely vivid glimpse into the human experience. We will see representations of humankind's darkest fears and most fervent beliefs; we will see artists' conceptions of ugliness, violence and inhumanity as well as those of ultimate beauty, dignity and truth. As we study their works and gain a deeper understanding of the Western tradition in art, we will also gain a clearer understanding of our own place within those traditions. Students will also be introduced to arts of non-western cultures such as Asia, Africa, and the Americas prior to the coming of the Europeans. This course requires maturity, responsibility and self-motivation as the outside workload is heavy and the subject matter complex and adult. However, the rewards of the course (beyond the college credit) should far outweigh any discomforts, for the rich experience we'll share in studying art history will open the entire visual world to us in ways that will enhance our experience in it for the rest of our lives. Students will utilize technology for research presentations and up to two (2) field trips to art museums is required. **Fee charged for AP Test Exam \$95.00 and field trip (cost to be determined by location).** All students are required to take the AP Exam

Students planning to take this course will be assigned specific reading over the summer. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

820 ART I

Year course open to freshmen (if space is available), sophomores, juniors and seniors.

Prerequisites: None

Materials and tools fee charged for this course

This course will introduce the student to the composition of art in terms of the basic elements of art: Line, shape/form, value, texture, space, and color as well as the principles of design: Unity, balance, rhythm and variation. Emphasis will be placed on learning skills and techniques to develop the student's creative ability as well as observational drawing skills and the use of technology in art production. The course is designed for students who: a) have had little to no previous art instruction b) have some experience but wish to improve their abilities and c) plan to take a college art course. Media used include pencil, ink/felt tip pen, charcoal, oil pastels, colored pencils, and acrylics. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

822 ART II

Year course open to sophomores, juniors and seniors

Prerequisites:

1. A grade of "B" or better in Art I
2. Signature of your Art I teacher

Materials and tools fee charged for this course.

Emphasis will be placed on compositional problem solving, self-portraits, figure drawing, painting and the use of technology in art production. Students will further explore their understanding of the elements and principles of art. The curriculum will include aesthetic perception, creative expression, the visual arts historical and cultural heritage, and aesthetic valuing. An introduction to new media will include: conte crayon, watercolor, ink and/or ink wash, chalk pastel, printmaking and some mixed media experience. A trip to an art museum is required with a follow-up evaluation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

823 ART III

Year course open to juniors and seniors

Prerequisites:

1. A grade of "B" or better in Art II
2. Signature of Art II teacher

Materials and tools fee charged for this course.

The course is a year-long in the continued instruction in the use of line in regards to space, shape and self expression, (e.g., contour drawing) and creating a sense of space and three dimensionality, proportion and value contrast in a work of art. Students will continue to develop perceptual and expressive skills through continued instruction in figure studies, to the self-portrait, still life, and additional compositional problems that require critical thinking, observational techniques, and the use of technology. Students will work thematically in a series of works and explore various media in order to demonstrate their abilities in art technique, critical thinking and problem solving. Media covered includes pencil, charcoal, pen and ink/markers, ink wash, oil pastels, scratch board, chalk pastels, conte crayon, watercolor, acrylics, collage and mixed media. A trip to an art museum is required with a follow-up evaluation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

824 ART IV

Year course open to seniors

Prerequisites

1. A grade of "B" or better in Art III
2. Signature of your Art III teacher

Materials and tools fee charged for this course. Students will be given a list of materials to be purchased for the class. (Some materials can be used from previous classes).

This advanced art course will develop the individual needs of the students and the requirements for admission into art programs at the college level. Emphasis will be placed on specific media and portfolio evaluation. This includes critical thinking, self-portraits, observation projects, collages, and the use of technology. A trip to an art museum is required with a follow-up evaluation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

819 ADVANCED PLACEMENT STUDIO ART – DRAWING PORTFOLIO

Year course - Open to juniors and seniors

Prerequisites

1. A grade of "A" in Art II or Art III
2. Signature of your present Art teacher
3. Portfolio review by AP Studio teacher

Fees charged for:

1. Materials and tools \$95.00 (Some materials may be used from previous classes.)
2. AP Test Exam \$95.00 (paid to Counseling Department)

This advanced art course will develop individual skills to meet Advanced Placement Portfolio requirements and to prepare students for admission to art schools. This course is demanding and requires students to spend a significant number of hours outside class time to complete the number of works required. For the Drawing Portfolios, emphasis will be placed on specific media including self-portraits, observational drawing, collage, and creative problem solving. The portfolio is divided into three categories that the student must complete before the portfolio review.

QUALITY: The student will present work in which quality is recognizable through the student's intent in concept and execution.

CONCENTRATION: The student will present a body of related works based on the student's interest in a particular vision concern. It focuses on a process of investigation, growth, and discovery. The Concentration grows out of a plan of action showing the evolution of an idea with one underlying theme.

BREADTH: Students will complete works that demonstrate a range of problems, ideas, media, and approaches in the areas of color/design, drawing, and sculpture.

A field trip to an art museum is required with follow-up evaluation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

828 DESIGN

Year course open to freshmen, sophomores, juniors and seniors

Prerequisites: None

Materials and tools fee charged for this course

This course is a class in the basic elements and principles of design as they are applied to graphic design, advertising and print media. The course includes an introduction to the role of art movements in design and to the use of design in other cultures. Students will learn two-dimensional applications of design concepts, critical thinking and problem-solving skills.

Materials used will be graphite and colored pencils, ink, markers, and digital technology. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

827 CONTEMPORARY MEDIA

Year course open to sophomores, juniors, and seniors

Prerequisites

1. A grade of "B" or better in Art I or Design
2. Signature of the Contemporary Media teacher

Materials and tools fee charged for this course

This is a course in computer graphic design. Students will learn to apply the elements and principles of Art in two-dimensional computer-generated imagery. Students will learn to integrate and organize digital text and computer graphics into an overall design. Students will gain a basic understanding of artists and art styles that have impacted commercial and fine art. This course provides training in the computer programs Adobe Photoshop, Adobe Illustrator, and In Design. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

815 CONTEMPORARY MEDIA II

Year course open to juniors, and seniors

Prerequisites

3. A grade of "B" or better in previous Visual Arts courses including Art I, Art II, Design, or Contemporary Media
4. Signature of the Contemporary Media II teacher

Materials and tools fee charged for this course

This is an advanced course in computer graphic design. Students will continue to apply the elements and principles of Art in two-dimensional computer-generated imagery. Students will learn to integrate and organize digital text and computer graphics into an overall design. Aspects of digital photography will be explored and students will be expected to independently and collaboratively to take projects from initial design to completion. Students will further explore contemporary artists and art styles that have impacted commercial and fine art. This course provides further training in the computer programs Adobe Photoshop, Adobe Illustrator, and In Design. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

862 ADVANCED PLACEMENT STUDIO ART – TWO-DIMENSIONAL DESIGN PORTFOLIO

Year course - Open to juniors and seniors

Prerequisites

1. A grade of “A” in Art II or Art III for Drawing and Two-Dimensional Design Portfolios;
2. Signature of your present Art teacher
3. Portfolio review by AP Studio teacher

Fees charged for:

1. Materials and tools \$95.00 (Some materials may be used from previous classes.)
2. AP Test Exam \$95.00 (paid to Counseling Department)

This advanced art course will develop individual skills to meet Advanced Placement Portfolio requirements and to prepare students for admission to art schools. This course is demanding and requires students to spend a significant number of hours outside class time to complete the number of works required. The Two-dimensional Design Portfolio emphasizes purposeful decision-making on how to use the elements and principles of design in an integrative way. These include, but are not limited to, graphic design, typography, fabric design, photography, illustration, printmaking, and digital imaging. A variety of approaches to representation, abstraction, and expression will be represented in the student’s portfolio. The portfolio is divided into three categories that the student must complete before the portfolio review.

QUALITY: The student will present work in which quality is recognizable through the student’s intent in concept and execution.

CONCENTRATION: The student will present a body of related works based on the student’s interest in a particular vision concern. It focuses on a process of investigation, growth, and discovery. The Concentration grows out of a plan of action showing the evolution of an idea with one underlying theme.

BREADTH: Students will complete works that demonstrate a range of problems, ideas, media, and approaches in the areas of color/design, drawing, and sculpture.

A field trip to an art museum is required with follow-up evaluation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

808 CERAMICS I

Year course open to sophomores, juniors and seniors

Prerequisites: Art I is recommended

Materials and tools fee charged for this course

This course is an introduction to ceramics that will cover basic hand building techniques: coil, slab, pinch, and combinations of these methods. Projects will emphasize problem solving and an introduction to the elements and principles of art as they relate to three-dimensional design. The course will focus on ceramics as a form of expression that can be both functional and sculptural. In addition, the curriculum will include aesthetic perception, the historical and cultural heritage of ceramics and aesthetic valuing. Some writing and reading assignments required, including some utilizing digital research. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

809 CERAMICS II

Year course open to juniors and seniors

Prerequisites

1. A grade of "B" in Ceramics I
2. Signature of the Ceramics I teacher

Materials and tools fee charged for this course

This year long advanced course includes further exploration of hand building techniques to solve complex three-dimensional problems. Problems will require both sculptural and functional solutions, but the focus will be more on ceramics as a sculptural form, and particularly as a means of artistic expression and social commentary. New methods will include Raku firing, lamination, and the use of molds. Students will be required to maintain a sketchbook of working ideas, complete research on selected ceramic artists and methods, maintain a log of progress, and complete regular self-evaluations on finished work. One museum visit is required with a follow-up evaluation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

860 CERAMICS III

Year course open to juniors and seniors

Prerequisites

1. A grade of "A" in Ceramics 2
2. Signature of the Ceramics 2 teacher
3. Willingness and time to work beyond scheduled class time for a minimum of 3 hours per week.
4. **There is a materials and tools fee charged for this course**

This year long advanced course is designed to teach students both the theory and applications of Ceramics at a more advanced level than Ceramics II. Students will apply the elements and principles of Art in clay using advanced techniques not utilized in the Ceramics I and II. Students will be required to maintain a sketchbook of working ideas, complete research on selected ceramic artists and methods, maintain a log of progress, and complete regular self-evaluations on finished work. One museum visit is required with a follow-up evaluation. **This course is currently under review to meet both UC and CSU Visual and Performing Arts requirements.**

821 ADVANCED PLACEMENT STUDIO ART – THREE-DIMENSIONAL DESIGN PORTFOLIO

Year course - Open to juniors and seniors

Prerequisites

1. A grade of “A” in Art II or Art III and/or “A” in Ceramics I or Ceramics II for the Three-Dimensional Design Portfolio
2. Signature of your present Art teacher
3. Portfolio review by AP Studio teacher

Fees charged for:

1. Materials and tools \$ 95.00 (Some materials may be used from previous classes.)
2. AP Test Exam \$95.00 (paid to the Counseling Department)

This advanced art course will develop individual skills to meet Advanced Placement Portfolio requirements and to prepare students for admission to art schools. This course is demanding and requires students to spend a significant number of hours outside class time to complete the number of works required. For the Three-dimensional Portfolio, students will explore advanced sculptural issues of form, space, volume, and mass using sculptural methods of subtraction, fabrication, and manipulation. The portfolio is divided into the following three categories that the student must complete before the portfolio review.

QUALITY: The student will present work in which quality is recognizable through the student’s intent in concept and execution.

CONCENTRATION: The student will present a body of related works based on the student’s interest in a particular vision concern. It focuses on a process of investigation, growth and discovery. The Concentration grows out of a plan of action showing the evolution of an idea with one underlying theme.

BREADTH: Students will complete works that demonstrate a range of problems, ideas, media, and approaches in the areas of color/design, drawing, and sculpture.

A field trip to an art museum is required with follow-up evaluation. **This course satisfies both UC and CSU Visual and Performing Arts requirement.**

PHYSICAL EDUCATION

PHYSICAL EDUCATION COURSES

925 PHYSICAL EDUCATION/CO-ED

One Semester Course

Open to freshmen, sophomores, and juniors

This course is designed to help develop students physically and socially. The students will study physical fitness development, nutrition, eating disorders and sports skills. Participation in team and individual sports will encourage appreciation for recreational activities.

908 PHYSICAL EDUCATION ASSISTANT

Year course open to **seniors**

Prerequisites: Signature of teacher

This course is designed for those who intend to become Physical Education teachers. Students will assist the instructors in all phases of Physical Education activities.

911 PHYSICAL EDUCATION ACTIVITIES - PEP SQUAD

Year course open to all grade levels

Prerequisites:

1. Audition in Spring
2. Minimum 2.0 GPA
3. Signature of Instructor

NOTE: This class meets during last period and after school.

During this period, the pep squad either practices for games and competitions.

912 ATHLETIC TRAINING

Prerequisites: Signature of Athletic Trainer

Year course open to sophomores, juniors and seniors

This is an entry level course in basic care and prevention of athletic injuries. The students will have hands-on practical experience in taping and the rehabilitation and treatment of sports injuries while working with both boys' and girls' athletics. This course is designed for the student who is interested in athletic training, sports medicine, or physical therapy as a career.

NOTE: This class meets during last period only, and it requires after school and weekend work to cover games and practices.

914 GIRLS' BASKETBALL

Prerequisites: Signature of Coach.

Year course offered during last period for students on the JV and Varsity teams.

916 GIRLS' SOFTBALL

Prerequisites: Signature of Coach.

Year course offered during last period for students on the JV and Varsity teams.

918 GIRLS' SOCCER

Prerequisites: Signature of Coach.

First Semester course offered at "0" Period (7:20 A.M.) for students on the Varsity team.

973 GIRLS' VOLLEYBALL

Prerequisites: Signature of Coach.

Year course offered during last period for students on the JV and Varsity teams.

975 GIRLS' WATER POLO

Prerequisites: Signature of Coach.

Year course offered during last period for students on the JV and Varsity teams.

913 BOYS' SOCCER

Prerequisites: Signature of Coach.

First Semester course offered at "0" Period (7:20 A.M.) for students on the JV and Varsity team.

919 BOYS' FOOTBALL

Prerequisites: Signature of Coach.

Year course offered last period for students on the sophomore and Junior Varsity teams only.

927/993 BOYS' FOOTBALL

Prerequisites: Signature of Coach.

Semester course for seniors only. Seniors must also sign up for Course #993, Off Campus 2nd Semester.

923 BOYS' BASKETBALL

Prerequisites: Signature of Coach.

Year course offered last period for students on the sophomore, JV and Varsity teams.

924 BOYS' BASEBALL

Prerequisites: Signature of Coach.

Year course offered during last period for students on the JV and Varsity teams.

976 BOYS' VOLLEYBALL

Prerequisites: Signature of Coach.

Year course offered during last period for students on the JV and Varsity teams.

974 BOYS' WATER POLO

Prerequisites: Signature of Coach.

Year course offered during last period for students on the JV and Varsity teams.

917 BOYS' WRESTLING

Prerequisites: Signature of Coach.

First Semester course offered at "0" Period (7:20 A.M.) for students on the JV and Varsity team.

ELECTIVES

ELECTIVE COURSES

712 INTERPERSONAL BEHAVIOR

Semester course offered to juniors and seniors

Prerequisites: None

This course enables you to gain insights into: who you are, who influences your values and thought, how you allow new ideas and knowledge to change and develop every day of your life, and how you will influence other people in the world. The course takes yesterdays, today and tomorrow's issues into consideration. Due to the serious and mature nature of the issues that are discussed, this class is open only to juniors and seniors.

Students taking this course must also sign up for Speech, #932.

901 JOURNALISM I

Year course open to freshmen (space permitting), sophomores, juniors and seniors

Prerequisites

1. A grade of "B" or better in English
2. Completion of application, interview and signature of Journalism Adviser

This two-semester course is for students interested in being trained in writing for *The Scarlet Scroll*. Students will learn basic journalism skills in the areas of news, feature and editorial writing, and will gain experience in photography and page design on the computer. The required textbook for this course is *The Manual for Scholastic Newspaper Publications*.

902 JOURNALISM II

Year course open to sophomores, juniors and seniors

Prerequisites

1. Completion of Journalism I
2. A grade of "B" or better in English
3. Completion of application, interview and signature of Journalism Adviser

Students who have successfully completed Journalism I may apply for this course. Students in Journalism II may apply for positions such as editor-in-chief, assistant editor, page editor, advertising manager, or photography editor. In addition to planning and creating publications, the students in Journalism II will be required to produce two research projects per semester. The focus of these papers will be on newspapers and news writing and will cover such topics as journalism careers, advertising, and Supreme Court cases based on scholastic journalism. **(UC and CSU approved elective).**

910 JOURNALISM III

Year course open to juniors and seniors

Prerequisites

1. Completion of both Journalism I and Journalism II
2. A grade of "B" or better in English
3. Completion of application, interview and signature of Journalism Adviser

This course is open to students who have successfully completed Journalism I and Journalism II. Students in Journalism III may apply for positions such as editor-in-chief, assistant editor, page editor, advertising manager, and photography editor. In addition to planning and creating publications, students in Journalism III will be required to produce two research projects per semester. The focus of these papers will be on journalism law and ethics, advertising, journalism careers, and any other pertinent topic.

947 JOURNALISM IV

Year course open to seniors

Prerequisites

1. Completion of Journalism I, II and III
2. A grade of "B" or better in English
3. Completion of application, interview and signature of Journalism Adviser

This course is open to seniors who have reached their fourth year in Journalism. Students in Journalism IV must hold editorial positions, and must possess those leadership skills necessary for such positions. In addition to editing, planning and creating publications, students in Journalism IV will be required to write two research papers per semester, utilizing four facets of Journalism, (e.g., broadcast journalism), responsible for circulating the *Scarlet Scroll* to other schools and will regularly critique other schools' newspapers.

903 YEARBOOK I

Year course open to all sophomores, juniors and seniors

Prerequisites

1. A grade of "B" or better in English
2. Completion of application, interview and signature of Yearbook Adviser

Students in this class will learn function, organization, and planning of the school yearbook. This will include ordering, cropping, proportioning of pictures, writing, and editing of the captions, copy and headlines. All work will be done exclusively on the computer. Participation in the publication of *The Crown* offers practical experience in writing, editing, and photography.

904 YEARBOOK II

Year course open to juniors and seniors

Prerequisites:

1. Grade of "B" or better in English
2. Completion of application, interview and signature of Yearbook Adviser

Students in this class will learn function, organization, and planning of the school yearbook. This will include ordering, cropping, proportioning of pictures, writing, and editing of the captions, copy and headlines. All work will be done exclusively on the computer. Participation in the publication of *The Crown* offers practical experience in writing, editing, and photography.

900 YEARBOOK III

Year course open to juniors and seniors

Prerequisites

1. Grade of "B" or better in English
2. Completion of application, interview and signature of Yearbook Adviser

Students in Yearbook III may hold editorial positions. They will be instrumental in organizing and planning the school yearbook. This will include ordering, cropping, proportioning of pictures, writing, and editing of the captions, copy, and headlines. All work to be done exclusively on the computer. Participation in the publication of *The Crown* offers practical experience in writing, editing, and photography.

949 YEARBOOK IV

Year course open to seniors

Prerequisites

1. Grade of "B" or better in English
2. Completion of application, interview and signature of Yearbook Adviser

This course is open to seniors who have reached their fourth year in Yearbook. Students in Yearbook IV must hold editorial positions, and must possess those leadership skills necessary for such positions. These students will plan the yearbook, organize the staff, and assist adviser in teaching desktop publishing to beginning students. All work on yearbook layouts will be completed on the computer.

932 SPEECH I: Speech for Effective Communication

Semester course open to juniors and seniors

Prerequisites: A desire to be an effective leader and citizen

This elective course deals with the understanding of the concepts and elements of the communication process and the development of practical skills that relate to all areas of life. This course offers opportunities for practical application in **Interpersonal Communication** (Verbal, Non-Verbal, Listening, and Response Skills) and **Public Speaking** (Problem-Solving, Brainstorming, Goal-Setting, Decision-Making, Leadership Techniques, Information, Persuasive, and Debate speeches). **Students taking this course must also sign up for Interpersonal Behavior, #712. UC and CSU approved elective.**

941 INTRODUCTION TO PSYCHOLOGY

Semester course open to juniors and seniors, offered at "0" Period

Prerequisites: Overall 3.0 GPA

This course will provide the student with an overview of general psychological theories and principles. This course will also provide a foundation for the student who will enroll in an introductory college course in psychology. **UC and CSU approved elective.**

951 ACADEMIC DECATHLON

Year course open to all students

Prerequisites

1. Completion of application
2. Successful completion of qualifying reading quiz
3. Approval of course instructor

This course prepares students for the February competition of the Academic Decathlon. The Decathlon is offered nationwide and gives students an opportunity to compete in ten different academic areas: mathematics, science, language and literature, economics, social science, fine arts, essay, speech, interview and super quiz. Nine students will be selected to compete as a team in February: three "A" students, three "B" students, and 3 "C" students, based on the Decathlon G.P.A. guidelines. Winners from the competition receive medals and many students have received scholarships to college based on their performance.

965 TELEVISION PRODUCTION I

Year course open to sophomores, juniors and seniors. Offered at Block 6 only

Prerequisites: Application, interview and signature of MDTV Director

This course is for students interested in learning the fundamentals of television production including: camera operation, gripping, stage management, lighting, audio, basic script writing, basic editing and technical directing.

Students will study television production techniques, receive hands on instruction for equipment usage, and learn to work in a team environment. Assignments will include producing television commercials, cameos for Video Yearbook, special interest pieces for the MDTV Morning News Show and introduction to remote shoots such as Football and Basketball games. Because assignments require moderate extra-curricular participation, MDTV may not be recommended for those students involved in sports or other activities. This class will serve as an introduction for students who plan to major in communications.

966 TELEVISION PRODUCTION II

Year course open to juniors and seniors. Offered at "0" Block

Prerequisites:

1. Television Production I
2. Application, interview and signature of MDTV Director

This advanced course will allow students to learn more advanced techniques of television production including: directing, producing, advanced camera operation, studio and remote shoot management, advanced script writing, advanced editing, creativity in audio and lighting, graphics and technical engineering.

Students will become regular crew member for MDTV remote shoots such as Basketball and Football games which are professionally produced and aired on local cable television channels. They also participate in other televised school events, MDTV Morning News, and special interest programs to be aired over the Whittle system. Advanced crew positions require leadership skills and carry heavy responsibility. Application and audition are required as well as job performance reviews. Because assignments require heavy extracurricular participation, MDTV is not recommended for those students involved in sports or other activities. This class will be invaluable for those students who plan to major in communication and pursue careers in television, radio, and multimedia.

OFFICE AIDE

926 FOOTBALL ASSISTANT

Prerequisites: Signature of Head Football Coach

Year course open to sophomores, juniors and seniors. Credit only, no letter grade given for all office aide courses.

Students work under the direction of the Head Football Coach

930 LIBRARY SCIENCE

Prerequisites: Signature of Librarian

Year course open to sophomores, juniors and seniors. Credit only, no letter grade given for all office aide courses.

NOTE: Class is limited to 14 students per year

Students are trained in various library procedures including: circulation techniques, directional assistance, periodical processing, and book shelving. This work experience is equivalent to the position of a Library page in a public or college library.

934 OFFICE AIDE - DEANS

Prerequisites: Signature of Director of Discipline

Year course open to juniors and seniors. Credit only, no letter grade given for all office aide courses.

NOTE: Office Aide - Deans - is limited to 15 students (total)

Students work under the direction of the Deans.

936 OFFICE AIDE – GUIDANCE/CAREER CENTER

Prerequisites: Signature of Director of Guidance and Counseling

Year course open to juniors and seniors. Credit only, no letter grade given for all office aide courses.

NOTE: Office Aide - Guidance - is limited to 14 students (total)

Students work under the direction of the Counselors.

937 OFFICE AIDE - MAIN OFFICE

Prerequisites: Signature of Business Manager

Year course open to juniors and seniors. Credit only, no letter grade given for all office aide courses.

NOTE: Office Aide - Main Office is limited to 7 students (total)

Students work under the direction of the Accounting Supervisor.

938 OFFICE AIDE - CAMPUS MINISTRY

Prerequisites: Signature of Director of Campus Ministry

Year course open to juniors and seniors. Credit only, no letter grade given for all office aide courses.

Students work under the direction of the Director of Campus Ministry

943 OFFICE AIDE – HEALTH ROOM

Prerequisites: Signature of Health Service Coordinator

Year course open to seniors. Credit only, no letter grade given for all office aide courses.

NOTE: Limited to 6 students (total)

Students work under the direction of the School Health Service Coordinator

957 OFFICE AIDE - ACTIVITIES

Prerequisites: Signature of Activities Director

Year course open to seniors only. Credit only, no letter grade given for all office aide courses.

Students work under the direction of the Activities Director

958 OFFICE AIDE – LEARNING CENTER

Prerequisites: Signature of Learning Center Specialist

Year course open to approved students. Credit only, no letter grade given for all office aide courses.

Students work under the direction of the Learning Center Specialist

991 OFF CAMPUS

Available during last period to seniors only.

No credit given

993 OFF CAMPUS – 2nd SEMESTER ONLY

Available during last period to seniors only.

No credit given