Course Catalog
2019-2020 School Year

GENERAL INFORMATION
Graduation Requirements
Program of Studies
Advanced Placement Information
Student Athlete Information
University of California/Cal State A-G Subject Requirements
Scheduling Information

COURSE DESCRIPTIONS
Religious Studies
English
Social Studies
STEM (Science, Technology, Engineering, Mathematics)
Mathematics
Science
World Languages
Performing Arts
Visual Arts
Athletics
Leadership Studies
Film and Media Arts
Center for Learning
Dual Enrollment
GRADUATION REQUIREMENTS

To receive a diploma from Mater Dei High School, students who attend Mater Dei grades 9-12, must successfully complete (“D” or better) the following requirements. All graduation requirements must be taken at Mater Dei from the time a student enrolls in the school.

<table>
<thead>
<tr>
<th>Required Course</th>
<th>Required Years</th>
<th>Required Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religious Studies</td>
<td>4</td>
<td>40</td>
</tr>
<tr>
<td>English</td>
<td>4</td>
<td>40</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
<td>30</td>
</tr>
<tr>
<td>Science</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3</td>
<td>30</td>
</tr>
<tr>
<td>World Languages (Same Language)</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>Visual or Performing Art</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>Additional Credits/Elective Courses*</td>
<td>8</td>
<td>80</td>
</tr>
</tbody>
</table>

Total 270 Credits

Christian Service + Reflection Essay/Group Discussion 80 Hours

*All credits earned in excess of the required courses in any subject area will count toward the “Additional/Elective” requirement

COURSE REMEDIATION

- A grade of “D” or higher is considered passing at Mater Dei (Note a “C” or higher is often required to meet college admissions requirements)
- If a student fails a course, he/she is expected to make up the course in summer school following that school year
- 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 transcript that have not been remediated will not walk or participate in 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/program 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

SAMPLE PROGRAM OF STUDIES

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 No Block 1</td>
<td>No Block 1 or Elective</td>
<td>No Block 1 or Elective</td>
<td>No Block 1 or Elective</td>
</tr>
<tr>
<td>3 English</td>
<td>English</td>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>4 Mathematics</td>
<td>Mathematics</td>
<td>Mathematics</td>
<td>Social Studies</td>
</tr>
<tr>
<td>5 Science</td>
<td>Science</td>
<td>Social Studies</td>
<td>Elective</td>
</tr>
<tr>
<td>6 World Languages</td>
<td>Social Studies</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>7 Visual or Performing Arts</td>
<td>World Languages</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>8 Elective</td>
<td>Elective</td>
<td>Elective</td>
<td>No Block 8 or Elective</td>
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</table>

SCHOOL GRADES / GRADING SCALE

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent</th>
<th>GPA: College Prep</th>
<th>Weighted GPA: AP/Honors</th>
<th>GPA Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>100-90%</td>
<td>4.0</td>
<td>5.0</td>
<td>Excellent</td>
</tr>
<tr>
<td>B</td>
<td>89-80%</td>
<td>3.0</td>
<td>4.0</td>
<td>Good</td>
</tr>
<tr>
<td>C</td>
<td>79-70%</td>
<td>2.0</td>
<td>3.0</td>
<td>Average</td>
</tr>
<tr>
<td>D</td>
<td>69-60%</td>
<td>1.0</td>
<td>1.0</td>
<td>Poor</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60%</td>
<td>0.0</td>
<td>0.0</td>
<td>Failure</td>
</tr>
</tbody>
</table>

NUMBER OF COURSES/SCHOOL YEAR REQUIREMENT

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>7 courses per semester</td>
</tr>
<tr>
<td>Sophomore</td>
<td>7 or 8 courses per semester</td>
</tr>
<tr>
<td>Junior</td>
<td>7 or 8 courses per semester</td>
</tr>
<tr>
<td>Senior</td>
<td>6* to 8 courses per semester</td>
</tr>
</tbody>
</table>

*Must meet the credit minimum for graduation
ADVANCED PLACEMENT COURSES

In order to meet the needs of our academically talented students, the 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 teachers, pass the appropriate placement exams, and 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 approximately $115.00* per exam (approximately $155* for AP Capstone Seminar) by mid-December. AP Fees will be paid thru your FACTS account. You will receive a notification from FACTS via email in late October. *Fee is subject to change by the College Board.

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. To find colleges and universities with AP credit policy information, please visit: http://collegesearch.collegeboard.com/apcreditpolicy/index.jsp

STUDENT-ATHLETE INFORMATION

NCAA

Search and view Mater Dei’s NCAA Course List at: https://web3.ncaa.org/hsportal/exec/hsAction

To participate in NCAA Division I or II athletics in college:
- Register with the NCAA Eligibility Center: www.eligibilitycenter.org
- Order your official transcript to be sent to the NCAA Eligibility Center: www.parchment.com
- Order your official ACT/SAT test scores to be sent to the NCAA Eligibility Center: www.act.org or www.collegeboard.org
- To play Division I sports, qualify academically and meet minimum requirements: www.2point3.org
- Please see your counselor should you have any questions

NAIA

To participate in athletics at an NAIA member school in college:
- Register with the NAIA Eligibility Center: https://www.playnaia.org/
- Order your official transcript to be sent to the NAIA Eligibility Center: www.parchment.com
- Order your official ACT/SAT test scores to be sent to the NAIA Eligibility Center: www.act.org or www.collegeboard.org
- To qualify, student must meet two of three official test score, GPA, and class rank requirements: https://www.playnaia.org/d/NAIA_GuidefortheCollegeBoundStudent.pdf
- Please see your counselor should you have any questions

UC/CSU A-G REQUIREMENTS

Mater Dei’s UC/CSU-approved Course List: http://hs-articulation.ucop.edu/agcourselist#/list/details/3546/22

<table>
<thead>
<tr>
<th>Subject</th>
<th>CSU</th>
<th>UC</th>
</tr>
</thead>
<tbody>
<tr>
<td>A History/Social Science</td>
<td>2 years</td>
<td>2 years</td>
</tr>
<tr>
<td>B English</td>
<td>4 years</td>
<td>4 years</td>
</tr>
<tr>
<td>C Mathematics (incl. Geometry)</td>
<td>3 years</td>
<td>*4 years</td>
</tr>
<tr>
<td>D Laboratory Science (1 yr life + 1 yr physical)</td>
<td>2 years</td>
<td>*3 years</td>
</tr>
<tr>
<td>E Foreign Language (same language)</td>
<td>2 years</td>
<td>*3 years</td>
</tr>
<tr>
<td>F Visual/Performing Art</td>
<td>1 year</td>
<td>1 year</td>
</tr>
<tr>
<td>G College Prep Electives</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>

* = Number of recommended years

IMPORTANT NOTES ON SCHEDULING

Mater Dei High School reserves the right to modify courses listed in the Course Catalog and to cancel courses due to insufficient enrollment. An average class size is approximately 30 students, and no class can be less than 25 students without specific authorization from the Principal or Assistant Principal of Academic Services.

- Scheduling is done online in the spring through Aeries Student Portals for current students.
- Students’ courses may be changed if there is an error in placement, conflict between elective choices, insufficient course enrollment, not meeting course prerequisites, or the class being full.
- All student schedules are assigned by computer. The master schedule system balances all class sizes and randomly assigns teachers and periods. To maintain proper class balance and fairness to all, students/parents may not request a schedule change to accommodate a teacher or block of their choice.
- Classes are semester-long and year-long. Once placed into a class, students must remain in that class until the end of the school year.
- Prerequisites for any subject must be met at the end of the first semester and maintained at the end of the second semester.
- Juniors and Seniors planning to play sports at the collegiate level should be aware of NCAA and NAIA requirements.
All Religious Studies courses incorporate the Diocese of Orange Department of Catholic Schools Criteria for Safe Environment Curriculum. The following curriculum is developed in accord with the *Doctrinal Elements of a Curriculum Framework* set forth by the United States Conference of Catholic Bishops.

*Religious Studies courses are not UC or CSU approved unless otherwise indicated.*

### RELIGIOUS STUDIES

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
</table>
Comparative Religion
Peace and Justice
Intro to Philosophy
Religious Studies Aide |
| **Other Electives** | | Intro to Psychology | Intro to Psychology
AP Psychology |

#### 114 RELIGIOUS STUDIES I: SACRED SCRIPTURE AND TRADITION

**Course Length:** Year  
**Grade Level:** 9  
**A-G Designation:** None  
**Prerequisite:** None; required for all freshmen

Rooted in Sacred Scripture and Tradition this course explores God’s Revelation, Jesus as the Living Word of God—both human and divine, the Trinity, the Liturgical Year, the Incarnation, and Mary, the Mother of God. Students learn to navigate the Bible and use basic exegetical skills which aide in achieving a deeper understanding of the Bible and Salvation History. Students explore the stories of Primeval History, the Patriarchs, Moses, Judges, Kings, and Prophets. Through this study, students are able to understand why salvation history is integral to comprehending the covenantal relationship between God and the Israelites and Jesus as the fulfillment of God’s revelation and plan of salvation. This course is designed to help students reflect on their faith to understand the ultimate call of all humans; to love and to find true happiness and joy in response to their faith.

**SUPPLEMENTARY UNITS TO THE DOCTRINAL CURRICULUM:**  
**Substance Abuse, Awareness, and Prevention**

The substance abuse curriculum explores the physical, emotional and spiritual consequences of the use and abuse of chemical substances. The students are exposed to the impact that drug/alcohol use and addiction have on the entire family. Through examining statistics they will learn the extent of drug use, addiction and morbidity rate among people their age. By studying their internal and external assets the students will learn about the importance of engaging in healthy relationships and activities throughout their life.

#### 121 RELIGIOUS STUDIES II: PASchal MYSTERY/ThE CHURCH

**Course Length:** Year  
**Grade Level:** 10  
**A-G Designation:** None  
**Prerequisite:** None; required for all sophomores

**FALL SEMESTER: Paschal Mystery**

The first semester course is designed to introduce students to what it means to be a disciple of Christ. Students will study the Gospels through various lenses and explore the life, teachings, miracles, and ministry of Jesus Christ. God’s redeeming presence through Jesus Christ is explored in-depth through the study of the Paschal Mystery: the meaning of his life, death, Resurrection and Ascension.

**SPRING SEMESTER: The Church**

The second semester course is designed to help students discover what it means to belong to the Living Body of Christ. Students will study the historical foundations and sacred traditions of the Church, as well as its mission in the world today. They will learn about the sacredness of the Church in all her dimensions: as one, holy, catholic and apostolic. Students will be introduced to various ways of participating in the Church as disciples of Christ and how to live in loving relationship with God and God’s people.
SUPPLEMENTARY UNITS TO THE DOCTRINAL CURRICULUM:

131 RELIGIOUS STUDIES III: SACRAMENTS AND ETHICS

Course Length: Year
Grade Level: 11
A-G Designation: None
Prerequisite: None; required for all juniors

FALL SEMESTER: Sacraments
This course guides students in understanding the centrality of sacraments in the life of the Church as encounters with Christ. They also identify key elements of prayer and worship, the Sacraments of Initiation: Baptism, Confirmation, and Eucharist; the Sacraments of Healing: Penance/Reconciliation and Anointing of the Sick; and the Sacraments at the Service of Communion: Holy Orders and Matrimony.

SPRING SEMESTER: Ethics
In Ethics, students develop a greater understanding of the foundational principles of morality and the moral decision-making process as rooted in the Ten Commandments, Scripture, Tradition, and the primary source documents of the Catholic Church. Learning to live as disciples of Christ—love God and love neighbor, students make applications to specific moral questions in the areas of honoring God, beginning-of-life and end-of-life bio-medical issues, human sexuality, integrity, justice, care for God’s creation, peace and legitimate defense, and media literacy and information technology.

SENIOR RELIGIOUS STUDIES CLASSES

Please refer to your MD student iBooks library to access the Religious Studies Senior Electives iBook for information about the elective choices. An Apple device (iPad or Mac) is required to access this iBook.

- Course changes, adds, and drops may not occur after two weeks into the semester for senior level Religious Studies classes
- Students must select two of the following semester courses:

<table>
<thead>
<tr>
<th>RELIGION ELECTIVE</th>
<th>UC-Approved Elective</th>
<th>NCAA-Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td>142 Christian Lifestyles</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>152 Comparative Religion</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>153 Peace and Justice</td>
<td>✓</td>
<td>No</td>
</tr>
<tr>
<td>154 Intro to Philosophy</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>155 Religious Studies Aide</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

142 RELIGIOUS STUDIES IV: CHRISTIAN LIFESTYLES

Course Length: Semester
Grade Level: 12
A-G Designation: None
Prerequisite: None; seniors are required to take 2 Religious Studies IV Electives

This course leads the students toward a deeper understanding of God’s call concerning the four states of life: married, single, ordained, and consecrated. Emphasis is placed on vocation as God’s personal call to each of us and our response. Themes that are common to all four vocations are explored: identity, love, communication, sexuality, lifelong learning, work, money and possessions, and leisure.

152 RELIGIOUS STUDIES IV: COMPARATIVE RELIGION

Course Length: Semester
Grade Level: 12
A-G Designation: “G” - College-Preparatory Elective
NCAA: NCAA-approved course – Additional Core Courses
Prerequisite: None; seniors are required to take 2 Religious Studies IV Electives

The Comparative Religions course guides students in approaching with reverence the teachings, rules of life, and sacred rites of world religions. Students examine the Church’s relationship to non-Catholic Christians and non-Christian religions. Along with studying basic beliefs, codes of conduct and styles of worship, students examine the local and global issues that influence the practice of religion today. This is a UC and CSU approved course.

153 RELIGIOUS STUDIES IV: PEACE AND JUSTICE

Course Length: Semester
Grade Level: 12
A-G Designation: “G” - College-Preparatory Elective
Prerequisite: None; seniors are required to take 2 Religious Studies IV Electives

This course is about the problems we all share in this world: war, human trafficking, euthanasia, capital punishment, racism, international and domestic poverty, and environmental destruction. Fortunately, each of us can contribute to a more just and peaceful world. We are inspired and guided by the social teachings of the Catholic Church. In this course, students learn that God loves us and made us to create communities that respect human life and dignity, care for the poor and vulnerable, defend worker’s rights, live in solidarity, and care for the environment. The key to addressing big these problems comes from understanding their historical origins the social structures that maintain oppression and injustice.
today. That is why this course is also a study of history, economic systems, legal systems, education systems, government, and culture. We are also learn best practices from social justice leaders and movements of the past. This course is about being the people God calls us to be; being the people the world needs right now. With God’s help and the guidance of the Church, we can carry on that universal task of building a world of peace and justice. This is a UC and CSU approved course.

154 INTRODUCTION TO PHILOSOPHY: GREAT THINKERS OF THE WESTERN WORLD

Course Length: Semester
Grade Level: 12
A-G Designation: “G” - College-Preparatory Elective
NCAA: NCAA-approved course – Additional Core Courses
Prerequisite: None; seniors are required to take 2 Religious Studies IV Electives

This course is designed to offer the students an overview of Western Philosophy from the 6th century B.C.E. through the 19th century C.E. Students will be exposed to the fields of philosophy (logic, epistemology, metaphysics, ethics, aesthetics, philosophy of religion, philosophy of mind, political philosophy, determinism and freedom) through an overview of the major movements found within each of these fields. Students will examine the Christian perspective within each of these fields. As they examine the history of mankind’s investigation into the existence of God and what it means to act ethically, they will be more adequately prepared to present a rational argument for their own faith. This is a UC and CSU approved course.

155 RELIGIOUS STUDIES IV: RELIGIOUS STUDIES AIDE

Course Length: Semester
Grade Level: 12
A-G Designation: None
Prerequisites: Cumulative GPA of 3.0, GPA of 3.5 in Religious Studies, recommendation of current or past Religious Studies teacher, application submitted to department chair in the spring of the junior year, and interview with the department chair and/or freshmen level chair in the spring of the junior year.

Note: Students must also sign up for 142 Christian Lifestyles, 152 Comparative Religion, 153 Peace and Justice, or 154 Introduction to Philosophy.

This course gives an opportunity for seniors interested and talented in Religious Studies to aid Freshmen Religious Studies teachers in their classes. Activities may include leading group discussions, assisting students, leading prayer, researching designated topics for teacher presentations, and developing and teaching a lesson. A contract outlining course requirements and expectations will be signed by the student and parent.

941 INTRODUCTION TO PSYCHOLOGY

Course Length: Semester
Grade Level: 11-12
A-G Designation: “G” - College-Preparatory Elective
NCAA: NCAA-approved course – Social Science
Prerequisites: Cumulative 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. This course is a UC and CSU approved course.

1015 ADVANCED PLACEMENT PSYCHOLOGY

Course Length: Semester
Grade Level: 12
A-G Designation: “G” - College-Preparatory Elective
NCAA: NCAA-approved course – Social Science
Prerequisites: Cumulative 3.6 GPA and a “B” or better in a previous AP course.

This academically rigorous survey course explores the science of the brain and human behavior, including perception, learning, cognition, motivation, and lifespan development. Ethics and research methodology utilized in the field of Psychology are also addressed. Students enrolled in this course are required to take the AP exam in May. An AP Exam Fee applies. This course is a UC and CSU approved course.

Please note: This course deals with sensitive issues.
**HONORS/ADVANCED PLACEMENT ENGLISH COURSE POLICIES**
The Honors and Advanced Placement English Program at Mater Dei is composed of six rigorous courses demanding significantly more time and effort than the college prep 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 a cumulative 3.5 GPA, demonstrates “Mastery” in multiple compositional skills of the departmental writing assessment, and passes the course Qualifying Exam, may be admitted to Honors or Advanced Placement. The Qualifying Exam is administered early in the second semester. The expectations of the program are explained to all prospective students. Students and parents are required to sign a contract stating the class expectations on acceptance into the program.

**HONORS AND ADVANCED PLACEMENT SUMMER ASSIGNMENT**
Currently, the Mater Dei community has mutually agreed to not require summer work; however, the nature of Advanced Placement, per The College Board’s guidelines and expectations, is rigorous, requiring a wide knowledge base. So, we encourage potential AP English students to read widely and consistently. Students who are interested in Honors can also benefit from choosing to read. All Honors and AP teachers can provide students with recommended readings.

**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**
Juniors and Seniors taking Advanced Placement English are required to take the Advanced Placement Examination. An AP Test Fee applies.

**ADMISSION OF STUDENT TO HONORS OR ADVANCED PLACEMENT DURING THE SUMMER**

**TRANSFER STUDENTS NEW TO MATER DEI**
New students must meet the same requirements as other students. They may be required to take, and pass, the Qualifying Exam before placement is confirmed.

**ADMISSION OF STUDENTS TO HONORS OR ADVANCED PLACEMENT WHO TRANSFER INTO MATER DEI DURING THE SCHOOL YEAR.**
A transfer student will be placed according to their former school’s assigned class.

<table>
<thead>
<tr>
<th></th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>College Prep</strong></td>
<td>English I</td>
<td>English 2</td>
<td>English 3</td>
<td>English 4</td>
</tr>
<tr>
<td><strong>Honors</strong></td>
<td>Hn English</td>
<td>HN English 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Advanced Placement</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>Freshmen Reading ESL</td>
<td>ESL Creative Writing I/II Communications</td>
<td>ESL English Language and Composition</td>
<td>ESL Creative Writing I/II Communications AP Capstone Research Academic Decathlon</td>
</tr>
<tr>
<td></td>
<td>Creative Writing I/II Communications Academic Decathlon</td>
<td>Academic Decathlon</td>
<td>AP Capstone Seminar Academic Decathlon</td>
<td>Academic Decathlon</td>
</tr>
</tbody>
</table>

*All English courses are both UC and CSU approved courses unless otherwise indicated.*
211  ENGLISH I - LITERARY FORMS AND COMPOSITION

Course Length: Year  
Grade Level: 9  
A-G Designation: “B” – English  
NCAA: NCAA-approved course – 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 analytical study of literature. The following skills are developed and refined through a variety of in-class and at-home assignments: studying, vocabulary, grammar, and composition. The writing process is emphasized throughout the year to support the compositional requirements in subsequent courses.

212  HONORS ENGLISH I

Course Length: Year  
Grade Level: 9  
A-G Designation: “B” – English  
NCAA: NCAA-approved course – English  
Prerequisites: Admission based on scores from Entrance Exam, approval of the Department Chair, a passing score on the Honors Qualifying Writing Test may be required.

This course provides an in-depth study of literature, including an introduction to a variety of literary genres: the short story, poetry, drama, and the novel. It serves as the first building block in the series of English courses leading to Advanced Placement English. The course introduces students to literary analysis through the study of literary terminology and writing about literature. It focuses on the skills of close reading, critical thinking, literary analysis, writing about literature, essay writing, grammatical accuracy in writing, vocabulary development, and communication skills. It also provides the foundation for much of the literature to be studied in the junior and senior years through study of biblical and mythological allusions and archetypes in literature. Proficiency in grammar, reading comprehension, analytical thinking, and writing are vital.

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

Course Length: Year  
Grade Level: 9  
A-G Designation: None  
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.

The 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. **This is not a UC or CSU approved course.**

223  ENGLISH II – WORLD LITERATURE

Course Length: Year  
Grade Level: 10  
A-G Designation: “B” - English  
NCAA: NCAA-approved course – English  
Prerequisites: None

World Literature is a college preparatory course that features authors from around the world, covering a variety of texts, including but not limited to: Greek drama, Shakespearean tragedy, poetry, nonfiction, and contemporary novels. Throughout the course, students develop their writing skills through literary responses, multi-paragraph analysis, and a cross-curricular research paper that incorporates historical knowledge applied in a literary context. Additionally, students continue to build their knowledge of grammatical structures to better enhance their own writing. Students learn how to explore works of literature through the application of various theories.

222  ENGLISH II - HONORS WORLD LITERATURE

Course Length: Year  
Grade Level: 10  
A-G Designation: “B” - English  
NCAA: NCAA-approved course – English  
Prerequisites: Overall GPA of 3.5, “A” in both semesters of college prep English I, demonstrates “Mastery” in 3+ compositional skills of departmental writing assessment, and a passing score on the Honors Qualifying test or at least a “B” in both semesters of Honors English I, and approval of the Honors course instructor.

This course provides an in-depth study of literature, including ancient and modern drama, the novel, romantic and classical poetry, and short story selections. It serves as the second building block in the series of English courses leading to Advanced Placement English. The course focuses on seminal works and masterpieces of British and American literature, as well as some world literature, and continues the development of the skills of close reading, critical thinking, literary analysis, writing about literature, essay writing, grammatical accuracy in writing, vocabulary development, and communication skills. It continues to provide the foundation for much of the literature to be studied in the junior and senior years. The course approaches literary works with scholarly criticism and attention to detail. Proficiency in grammar, reading comprehension, analytical thinking, and writing are vital.

Parents and student are required to sign a contract indicating an understanding that the course requires significantly more time
and is significantly more challenging that 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 or AP English the following year.

### 233 ENGLISH III - AMERICAN LITERATURE

**Course Length:** Year  
**Grade Level:** 11  
**A-G Designation:** “B” - English  
**NCAA:** NCAA-approved course – English  
**Prerequisites:** None

This course is a study of the major works of American literature from the Early American period to the Modern period. In addition to the study of literature, the course includes language study (grammar, usage, and vocabulary) and engaging in the writing process (multi-paragraph essay and a research paper).

### 243 ADVANCED PLACEMENT LITERATURE AND COMPOSITION

**Course Length:** Year  
**Grade Level:** 11  
**A-G Designation:** “B” - English  
**NCAA:** NCAA-approved course – English  
**Prerequisites:** Overall GPA of 3.5, “A” in both semesters of College Prep English III, demonstrates “Mastery” in 4+ compositional skills of departmental writing assessment, and a passing score on the Honors Qualifying test or at least a “B” in both semesters of AP English Literature & Composition, and approval of the 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 that 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 AP Examination in English Literature and Composition. An AP Test Fee applies. Students have the option to take the AP Examination in English Language and Composition as well.

### 242 ENGLISH IV - SENIOR ENGLISH

**Course Length:** Year  
**Grade Level:** 12  
**A-G Designation:** “B” - English  
**NCAA:** NCAA-approved course – English  
**Prerequisites:** None

This course is designed to give students reading and writing skills which will help them to succeed at the college level. Extensive work will be devoted to analyzing complex texts, developing critical thinking skills, and writing a variety of essays. Additionally, students are supported in various aspects of the college application process.

This course is a study of the major works of British literature from the Anglo-Saxon period to the Modern period. In addition to the study of literature, the course includes language study (grammar, usage) and writing in several genres (narrative, argumentative, expository). Special emphasis will be given to drama, essays, poetry, and the novel. Through composition as well as literature studies, students are encouraged to develop and articulate an informed coherent personal world view that addresses the major moral, philosophical, and ethical problems faced by contemporary society.

### 244 ADVANCED PLACEMENT LANGUAGE AND COMPOSITION

**Course Length:** Year  
**Grade Level:** 12  
**A-G Designation:** “B” - English  
**NCAA:** NCAA-approved course – English  
**Prerequisites:** Cumulative GPA of 3.5, “A” in both semesters of college prep English III, a score of at least 80% on the departmental writing assessment, and a passing score on the AP Qualifying test at least a “B” in both semesters of Honors English III, and recommendation of AP course instructor.

This course offers the student a rigorous and in-depth study of various fiction and non-fiction texts. As the emphasis of this course is rhetoric and writing studies, we will primarily focus on the study of speeches, essays, biographies and autobiographies as well as advertisements in order to prepare students for the AP examination.

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 that 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 Language and Composition. An AP Exam Fee applies. Students have the option to take the AP Exam in English Literature and Composition as well.

### 290 ESL

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** None  
**Prerequisites:** None
This course is designed for students who want and need extra support in the English language. Topics include: world current events, American holidays, English grammar, and life at Mater Dei. Learning skills will be coordinated by our International Student Coordinator and will provide students with a curriculum targeted to help them develop better organizational, note-taking and critical thinking skills. This is not a UC/CSU approved course.

250 CREATIVE WRITING I

Course Length: Semester
Grade Level: 9-12
A-G Designation: “B” - English
NCAA: NCAA-approved course – English
Prerequisite: C or higher in English previous semester

A semester elective course where students will explore the craft of creative writing, including nonfiction, short story, drama and poetry. Students will develop observation, analytical and writing skills, as well as developing their knowledge and ability to use common literary devices. The students will read literary works critically in order to aid them in their own writing process. The focus will be on helping the students develop a unique, personal voice and style within their writing. If you enroll in Creative Writing I for the fall you will automatically be enrolled in the Creative Writing II course for the spring.

251 CREATIVE WRITING II

Course Length: Semester
Grade Level: 9-12
A-G Designation: “B” - English
NCAA: NCAA-approved course – English
Prerequisite: C or higher in Creative Writing I

A semester elective course where students will specialize in one genre of writing introduced in Creative Writing 1: non-fiction, short story, drama or poetry. The students will read pieces from masters in their field of study as a source of inspiration, work independently on teacher-guided lessons, participate in writing workshops, and work collaboratively with classmates in the editing process.

1031 COMMUNICATIONS

Course Length: Year
Grade Level: 9-12
A-G Designation: “G” - College-Preparatory Elective
Prerequisite: None

This one-year course is designed for students who wish to master the art of communication. This course includes the development and refinement of the students reading, writing, speaking, and listening skills along with higher-level critical thinking and research. Students will explore a wide range of communication platforms as well as learn about debate formats, formal and informal speeches, mass media, professional communication, current events and much more. This class is designed to open student’s eyes to the importance of communication in our everyday lives.

260 AP SEMINAR

Course Length: Year
Grade Level: 10*
A-G Designation: “G” - College-Preparatory Elective
NCAA: NCAA-approved course – English
Prerequisite: 3.5 GPA, successful completion of at least two honors level or AP courses, application and interview. *Offered to juniors; sophomores/seniors with permission of instructor.

AP Seminar is the first year of the two-year AP Capstone Program. It is an interdisciplinary course in which students are immersed in research and presentation on topics of their own choosing while gaining the analytical, research, problem solving, and communication skills necessary for success in college and beyond. Students may explore real-world issues on a local, national, or global scale; examine creative and artistic themes; or pursue topics introduced in other AP course in more depth. This course guides students to design research questions, analyze arguments, evaluate multiple perspectives, synthesize ideas, collaborate effectively, communicate persuasively, and reflect on their learning and development. There are three components required for assessment: a team project and presentation, an individual research based essay and presentation, and the AP Seminar exam. A $155 AP Exam fee applies. Students must complete the AP Seminar in order to be eligible for the second year course AP Research, but the Research course is not required. However, students who complete both courses successfully are eligible for the AP Capstone Certificate; students who also pass four other AP exams with scores of three or higher qualify for the AP Capstone Diploma.

261 AP RESEARCH

Course Length: Year
Grade Level: 12*
A-G Designation: “G” - College-Preparatory Elective
NCAA: NCAA-approved course – English
Prerequisite: Successful completion of AP Seminar. *Offered primarily to seniors; juniors with permission of the instructor.

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4,000–5,000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. A $155 AP Exam fee applies.
951 ACADEMIC DECATHLON

Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Completion of application. Successful completion of qualifying reading quiz. 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. **This is not a UC and CSU approved course.**
**320 CULTURAL GEOGRAPHY MUN HONORS**

Course Length: Year  
Grade Level: 9  
A-G Designation: “A” – History/Social Science  
NCAA: NCAA-approved course – Social Science  
**Prerequisites:** A minimum standard score on entrance exam

This course for academically talented freshmen combines the study of physical and cultural environments with the hands-on work of representing nations at Model United Nations conferences. Here the student will develop an understanding of current world problems and the research, speaking, writing and thinking skills needed to represent a nation effectively in interscholastic competitions.

**321 HONORS WORLD HISTORY MUN**

Course Length: Year  
Grade Level: 10  
A-G Designation: “A” – History/Social Science  
NCAA: NCAA-approved course – Social Science  
**Prerequisites:**  
(1) For Students currently enrolled in Cultural Geography/MUN Honors:  
   a. An “A” or “B” in Cultural Geography/MUN Honors  
   b. An “A” for the first semester of college-prep freshman English (or “B” or better in Honors English 1)  
(2) For students NOT currently enrolled in Cultural Geography/MUN Honors:  
   a. Minimum overall GPA of 3.60  
   b. An “A” for the first semester of college-prep freshman English (or “B” or better in Honors English 1)

This class is for academically talented sophomores with an interest in diplomacy, international relations, and current world issues. Students will examine the political, social, economic, intellectual, and cultural developments of Europe, Asia, Africa, and the Americas, beginning with Absolutism and culminating with the Global War on Terror. Students will develop an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural contexts. In order to serve as delegates of their assigned countries at required Model United Nations conferences, students will read extensively beyond the textbook and will engage in frequent in-depth investigations to find, organize, analyze, synthesize, and present their work at these local conferences.

**322 HONORS US HISTORY MUN**

Course Length: Year  
Grade Level: 10  
A-G Designation: “A” – History/Social Science  
NCAA: NCAA-approved course – Social Science - Pending  
**Prerequisites:**  
(1) Students who earned at least a “B” for both semesters of Honors World History/ MUN Honors and a cumulative GPA of 3.6 are automatically qualified to enroll in Honors United States History/MUN  
(2) Students enrolled in College Prep World History must meet the following requirements: Cumulative GPA of 3.6.  
   a. An “A” in both semesters of World History  
   b. An “A” in both semesters of English II OR a “B” or better of both semesters of Honors English.

Honors United States History/Model United Nations: This class is for academically talented juniors with an interest in diplomacy, international relations, and current world issues. Students will examine the political, social, economic, intellectual, and cultural developments of the United States of America beginning with a review of the Civil War and Reconstruction, an emphasis on twentieth century events, culminating with the twenty-first century and the War on Terror. In order to serve as delegates of their assigned countries at required Model United Nations conferences, students will develop an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural contexts by reading extensively beyond the textbook and engaging in frequent in-depth investigations to find, organize, synthesize, and present their work at these local conferences. Geographic concepts and skills are developed throughout the course.

**330 SOCIAL STUDIES II - ADVANCED PLACEMENT EUROPEAN HISTORY**

Course Length: Year  
Grade Level: 10
This course begins with an overview of the Middle Ages, then continues with an in-depth study of events ranging from the Middle Ages and the Renaissance through the post-Cold War Era and the unification of modern Europe. 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. $150), as well as an AP Test fee. NOTE: Students must maintain a “B” in both semesters and a cumulative G.P.A. of 3.6 in order to be eligible for AP American History the following year.

331 SOCIAL STUDIES II - WORLD HISTORY/GEOGRAPHY

Course Length: Year
Grade Level: 10
A-G Designation: “A” – History/Social Science
NCAA: NCAA-approved course – Social Science
Prerequisites: None

This course examines major turning points in the shaping of the modern world from the 15th to the 20th centuries. With an emphasis on Western civilization, the course begins with the Absolutism and culminates with the Global War on Terror. Students will examine the political, social, economic, intellectual and cultural developments of Europe, Asia, Africa and the Americas.

332 SOCIAL STUDIES III - UNITED STATES HISTORY AND GEOGRAPHY

Course Length: Year
Grade Level: 11
A-G Designation: “A” – History/Social Science
NCAA: NCAA-approved course – Social Science
Prerequisites: None

This course is a survey of the political, social and cultural movements in American history, beginning with the Civil War and Reconstruction, with an emphasis then on twentieth century events, then culminating with the twenty-first century and the War on Terror. Geographic concepts and skills are developed throughout the course.

333 SOCIAL STUDIES III - ADVANCED PLACEMENT AMERICAN HISTORY

Course Length: Year
Grade Level: 11
A-G Designation: “A” – History/Social Science
NCAA: NCAA-approved course – Social Science
Prerequisites: (1) Students enrolled in College-Prep English I (Literary Forms & Composition) or Honors English I must meet the following requirements:
   a. Cumulative GPA of 3.6
   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 minimum score of 70% on both sections of the exam.

Prerequisites: (2) Students who have at least a “B” in both semesters of AP European History and a cumulative G.P.A. of 3.6 are automatically qualified to enroll in AP United States History.

This course begins with an overview of New World exploration and continues with an in-depth study of events ranging from the Colonial Era through to the post-Cold War Era, including the fall of Communism and the Gulf War. 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. NOTE: Students must maintain a “B” in both semesters and a cumulative G.P.A. of 3.6 in order to be eligible for AP Government the following year.

341 SOCIAL STUDIES IV - UNITED STATES GOVERNMENT

Course Length: Semester
Grade Level: 12
A-G Designation: “A” – History/Social Science
NCAA: NCAA-approved course – Social Science
Prerequisites: None

This course examines the theory and practice of the United States Constitution, with application to the operation of the national and local governments today, including the role and ideologies of political parties, the process of voting and elections, the role of each of the three branches of government, as well as the influence of PAC’s, interest groups and the media. An emphasis is also placed on current events as they shape American society, economics and politics.

348 SOCIAL STUDIES IV - ECONOMICS

Course Length: Semester
Grade Level: 12
A-G Designation: “G” – College-Preparatory Elective
NCAA: NCAA-approved course – Social Science
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 as well.

349 SOCIAL STUDIES - ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS

Course Length: Year
Grade Level: 12
A-G Designation: “A” – History/Social Science
NCAA: NCAA-approved course – Social Science
Prerequisites:
(1) Students who have at least a “B” in both semesters of AP United States History and a cumulative G.P.A. of 3.6 are automatically qualified to enroll in AP Government.
(2) Students enrolled in College-Prep US History must meet the following requirements:
   b. An “A” in both semesters of US History.
   c. An “A” in both semesters of English III or a “B” or better in both semesters of Honors English III.

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. Your required third year of Social Studies is fulfilled with this course.

344 AP MACROECONOMICS

Course Length: Year
Grade Level: 12
A-G Designation: “G” – College-Preparatory Elective
NCAA: NCAA-approved course – Social Science
Prerequisites:
(1) Students who have at least a “B” in both semesters of AP United States History are automatically qualified to enroll in AP Macroeconomics.
(2) Students enrolled in College-Prep US History must meet the following requirements:
   a. Cumulative GPA of 3.6
   b. An “A” in both semesters of US History.

This college level course will prepare the student to take the AP Macroeconomics examination, offered in the month of May. Following an introduction to the basic elements of economics, students will then study microeconomics, including market theory. The students will then study macroeconomics, which includes the study of national economic performance, the analysis of national income, price determination, and many other macroeconomic models. Lastly, the students will investigate international economics and developmental economics so that they will have an awareness of the internationalism of economics and be able to have a better understanding of the global economy. Your required third year of Social Studies is fulfilled with this course. An AP Exam Fee applies.
Mater Dei’s Science and Math Departments offer a wide variety of Science, Technology, Engineering, and Mathematics courses to meet students’ individual needs and interests. All Science and all Math courses include STEM projects to prepare students for success in college and future careers in both STEM and non-STEM fields. Additionally, students with an interest in STEM can choose to participate in the STEM electives offered through the Science Department along with their Science and Math courses.

We have designed the following pathways to help students plan their progression through STEM courses at Mater Dei. These pathways are considered samples- we revisit placements each year and can plan unique course progressions for students with different needs and interests. Most students take one Math and one Science course per year and courses cannot be taken twice.

### SAMPLE STEM PATHWAYS

<table>
<thead>
<tr>
<th>Path</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>General (meets or exceeds Mater Dei graduation requirements and requirements for admission to competitive universities)</td>
<td>Biology PR, CP, HN</td>
<td>Chemistry CP, PR, HN</td>
<td>Physics CP, AP, AP Biology</td>
<td>AP Biology CP, AP</td>
<td>AP Biology CP, AP, DE</td>
</tr>
<tr>
<td>The other pathways below are variations designed for students with specific interests and placements</td>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2/Trig CP, PR or higher</td>
<td>Chemistry CP, PR</td>
<td>Physics CP, AP, HN</td>
<td>AP Biology AP Chemistry</td>
</tr>
<tr>
<td>Biology CP, PR or higher</td>
<td>Anatomy &amp; Physiology CP, PR</td>
<td>Zoology CP, PR</td>
<td>Algebra 2/Trig CP, PR or higher</td>
<td>Precalculus CP, PR</td>
<td>Robotics AP Parkinson Institution</td>
</tr>
<tr>
<td>Algebra I CP, PR or higher</td>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2/Trig CP, PR or higher</td>
<td>Precalculus CP, PR</td>
<td>Calculus CP, AP, DE</td>
<td>Robotics AP Science A</td>
</tr>
<tr>
<td>Designed for students interested in engineering or Computer Science</td>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2/Trig CP, PR or higher</td>
<td>Precalculus CP, PR</td>
<td>Robotics AP Computer Science A</td>
<td></td>
</tr>
<tr>
<td>Intro to Coding</td>
<td>Robotics &amp; Engineering</td>
<td>Intro to App Development</td>
<td>AP Computer Science A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designed for students with interest in the medical field</td>
<td>Biology CP, PR</td>
<td>Chemistry CP, PR</td>
<td>Physics CP, AP</td>
<td>Physics AP, AP, HN</td>
<td>Pre-Med Club</td>
</tr>
<tr>
<td>Chemistry CP, PR</td>
<td>Anatomy &amp; Physiology CP, PR</td>
<td>Sports Medicine</td>
<td>CP, PR</td>
<td>AP Biology AP Chemistry</td>
<td></td>
</tr>
<tr>
<td>Algebra I CP, PR or higher</td>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2/Trig CP, PR or higher</td>
<td>Precalculus CP, PR</td>
<td>Sports Medicine AP, DE</td>
<td></td>
</tr>
<tr>
<td>Designed for students with interest in Marine Biology, careers with animals, or environmental science</td>
<td>Chemistry CP, PR</td>
<td>Zoology</td>
<td>Chemistry CP, PR, HN</td>
<td>Sports Medicine AP, DE</td>
<td></td>
</tr>
<tr>
<td>Biology PR, CP, HN</td>
<td>Marine Biology CP, PR</td>
<td>Zoology</td>
<td>Chemistry CP, PR, HN</td>
<td>Sports Medicine AP, DE</td>
<td></td>
</tr>
<tr>
<td>Algebra I CP, PR or higher</td>
<td>Zoology CP, PR or higher</td>
<td>Precalculus CP, PR</td>
<td>Environmental Pre-Med Club, AP Biology AP Chemistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designed for students with interest in crime scene investigation or criminal law</td>
<td>Chemistry CP, PR</td>
<td>Anatomy &amp; Physiology CP, PR</td>
<td>Chemistry CP, PR</td>
<td>AP Biology AP Chemistry</td>
<td></td>
</tr>
<tr>
<td>Biology PR, CP, HN</td>
<td>Sports Medicine</td>
<td>Sports Medicine</td>
<td>AP Biology AP Chemistry</td>
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<td></td>
</tr>
<tr>
<td>Algebra I CP, PR or higher</td>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2/Trig CP, PR or higher</td>
<td>Precalculus CP, PR, HN</td>
<td>AP Biology AP Chemistry</td>
<td></td>
</tr>
<tr>
<td>Designed for students interested in liberal arts/ non-STEM fields</td>
<td>Anatomy &amp; Physiology CP, PR</td>
<td>Marine Biology CP, PR</td>
<td>Sports Medicine</td>
<td>Forensic Science</td>
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<tr>
<td>Marine Biology CP, PR</td>
<td>Zoology</td>
<td>Zoology</td>
<td>Mock Trial team</td>
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<td></td>
</tr>
<tr>
<td>Sports Medicine</td>
<td>Chemistry CP, PR</td>
<td>Sports Medicine</td>
<td>Consumer Math AP, DE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algebra I CP, PR or higher</td>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2 CP, PR or higher</td>
<td>AP Chemistry AP, DE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designed for students with an interest in Chemistry or a Physical Sciences concentration</td>
<td>Chemistry CP, PR</td>
<td>Chemistry CP, PR</td>
<td>AP Chemistry AP, DE</td>
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<td></td>
</tr>
<tr>
<td>Biology PR, CP, HN</td>
<td>AP Chemistry</td>
<td>AP Chemistry AP, DE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2 CP, PR or higher</td>
<td>Precalculus CP, PR, HN</td>
<td>AP Chemistry AP, DE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designed for students who enroll in Algebra IA as Freshmen</td>
<td>Marine Biology Zoology</td>
<td>Zoology</td>
<td>Sports Medicine</td>
<td>AP Chemistry AP, DE</td>
<td></td>
</tr>
<tr>
<td>Zoology</td>
<td>Sports Medicine</td>
<td>Sports Medicine</td>
<td>AP Chemistry AP, DE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algebra IA</td>
<td>Algebra IB*</td>
<td>Geometry PR</td>
<td>Algebra 2</td>
<td></td>
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</tr>
</tbody>
</table>

Please see the following pages for Math and Science course prerequisites/descriptions. You will find STEM electives under Science.
BIOTECHNOLOGY CERTIFICATE

Through a partnership with Santa Ana College, Mater Dei students can earn a Biotechnology Certificate, which grants students eligibility to work in a Biotechnology lab after graduating from Mater Dei High School. In addition, students will earn 1 college unit at transferrable institutions.

Mater Dei Courses (fulfill any of the pathways below):

<table>
<thead>
<tr>
<th>Mater Dei Courses (fulfill any of the pathways below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pathway 1: Biology, Human Anatomy &amp; Physiology</td>
</tr>
<tr>
<td>Pathway 2: Honors Biology, Human Anatomy &amp; Physiology</td>
</tr>
<tr>
<td>Pathway 3: Honors Biology, Advanced Placement Biology</td>
</tr>
</tbody>
</table>

AND

<table>
<thead>
<tr>
<th>Santa Ana College Course (no course fee if taken while enrolled at Mater Dei)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 190L: Introduction to Biotechnology Lab (1 unit)</td>
</tr>
</tbody>
</table>

Interested students should notify their School Counselor at Mater Dei. Students need to meet all prerequisites for Mater Dei classes and Santa Ana College courses and must be in good academic standing.
All Mathematics courses listed in this catalog are both UC and CSU approved courses. All Mathematics courses are one year in length.

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 below. **Note that credit recovery grades do not fulfill the prerequisites for any course.** Credit Recovery grades may only be used to remediate a D or F grade for transcript and/or graduation purposes.

Any current Mater Dei student who does not meet the prerequisites for a particular course may challenge next year’s math placement by successfully passing the Math Department Placement Exam for that course. The student must notify the Math Department Chair and their Academic Counselor of his/her intent to take the Placement Exam and register prior to the end of the school year.

Mater Dei offers select advancement courses through the Summer School program. To be eligible for an advancement class, the student must have at least an 85% in each semester of the prerequisite class. For example, a student who wishes to take PreCalculus for Advancement over the summer must have an 85% or higher in each semester of Algebra 2/Trigonometry. Please visit the Summer School Course Catalog for more information.

**SAMPLE MATH PATHWAYS**

<table>
<thead>
<tr>
<th>Designed for students interested in non-STEM related majors or careers</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra 1A</td>
<td>*Algebra 1B</td>
<td>Algebra 2</td>
<td>Geometry</td>
<td></td>
</tr>
<tr>
<td>Algebra 1A</td>
<td>Algebra 2</td>
<td>Geometry</td>
<td>Statistics or Consumer Math with Statistical Reasoning</td>
<td></td>
</tr>
<tr>
<td>*Algebra 1B -Credit advancement over the summer</td>
<td>*Geometry or Honors Geometry</td>
<td>*Algebra 2/Trig or Honors Algebra 2/Trig</td>
<td>*PreCalculus or Honors PreCalculus or Statistics or AP Statistics</td>
<td></td>
</tr>
<tr>
<td>Algebra 1 or Honors Algebra 1</td>
<td>*Geometry or Honors Geometry</td>
<td>*Algebra 2/Trig or Honors Algebra 2/Trig</td>
<td>*PreCalculus or Honors PreCalculus or Statistics or AP Statistics</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Designed for students with an interest in STEM majors or careers</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geometry or Honors Geometry</td>
<td>*Algebra 2/Trig or Honors Algebra 2/Trig</td>
<td>*PreCalculus or Honors PreCalculus</td>
<td>Calculus or AP Calculus AB or Statistics or AP Statistics</td>
<td></td>
</tr>
<tr>
<td>Calculation 2/Trig or Honors Algebra 2/Trig</td>
<td>*PreCalculus or Honors PreCalculus</td>
<td>Calculus or AP Calculus AB</td>
<td>AP Calculus BC or AP Statistics</td>
<td></td>
</tr>
</tbody>
</table>

*Offered over the summer for Credit Advancement*
412 ALGEBRA I

Course Length: Year
Grade Level: 9-12
A-G Designation: “C” – Mathematics
NCAA: NCAA-approved course – Mathematics
Prerequisites: A minimum score of 8.0 in Mathematics 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. This course will have a strong emphasis on linear equations and inequalities including systems of equations. Students will learn the foundations of algebra including radicals, exponents and quadratics. 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. A scientific calculator will be needed throughout the course.

413 HONORS ALGEBRA I

Course Length: Year
Grade Level: 9-12
A-G Designation: “C” – Mathematics
NCAA: NCAA-approved course – Mathematics
Prerequisites: A minimum score of 10.0 in Mathematics on the Entrance Exam or have passed the Honors Algebra I Placement Test. Passing score on the diagnostic test to be given on the first day of class.

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. A scientific calculator will be needed throughout the course.

416 ALGEBRA 1A

Course Length: Year (1st year of 2-year Algebra I Course)
Grade Level: 9
A-G Designation: “C” – Mathematics
NCAA: NCAA-approved course – Mathematics
Prerequisites: None

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. A scientific calculator will be needed throughout the course. Students who take this course must also sign up for 417 Algebra 1B the following year or for Credit Advancement over the summer.

417 ALGEBRA 1B

Course Length: Year (2nd year of 2-year Algebra I Course)
Grade Level: 9
A-G Designation: “C” – Mathematics
NCAA: NCAA-approved course – Mathematics
Prerequisites: Completion of Algebra 1A.

The second year of a two-year, integrated Algebra I course (see Algebra I above). A scientific calculator will be needed throughout the course. Algebra 1B may be taken over the summer to advance to a Geometry course. To take Algebra 1B in the summer, students must earn a grade of “B” or better in both semesters of Algebra 1A.

Students who successfully complete Algebra 1A and Algebra 1B will receive two years of math credit toward graduation. However, the colleges treat this as one year of college preparatory math.

421 GEOMETRY

Course Length: Year
Grade Level: 9-12
A-G Designation: “C” – Mathematics
NCAA: NCAA-approved course – Mathematics
Prerequisites: Algebra 1 or Honors Algebra 1 with a grade of “C” or better each semester or Algebra 1A/1B with a grade of “B” or better in all four semesters and have passed the Math Department Geometry Placement Test or completion of Algebra 2. Entering freshmen that achieve a minimum score of 9.0 in Mathematics on the Entrance Exam, have successfully completed a documented Algebra I course with a grade of “B” or better, and have passed the Geometry Placement Test.

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 enrolled in this course, students may not transfer into Principles of Geometry after the first four weeks of the school year.

422 HONORS GEOMETRY

Course Length: Year
Grade Level: 9-12
A-G Designation: “C” – Mathematics
NCAA: NCAA-approved course – Mathematics
Prerequisites: Honors Algebra I with a grade of “B” or better each semester or Algebra I with a grade of “A” each semester
and a passing score on the Honors Geometry Placement Test. Entering freshmen that achieve a minimum score of 9.0 in Mathematics on the Entrance Exam, have successfully completed a documented Algebra I course with an “A” or better, and have passed the Honors Geometry Placement Test. Passing score on the diagnostic test to be given on the first day of class.

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 proofs. 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**

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “C” – Mathematics  
**NCAA:** NCAA-approved course – Mathematics  
**Prerequisites:** Completion of Algebra 1 or Algebra 1A and 1B.

This is a two-semester course in advanced algebra designed for students who intend to take four years of high school mathematics. 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.

**429 ALGEBRA 2/TRIGONOMETRY**

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “C” – Mathematics  
**NCAA:** NCAA-approved course – Mathematics  
**Prerequisites:** Geometry with a grade of “B” or better both semesters or Honors Geometry with a grade of “C” or better both semesters. Entering freshmen that achieve a minimum score of 10.0 in Mathematics on the Entrance Exam, have successfully completed documented Algebra I and Geometry courses with grades of “B” or better, and have passed the Algebra 2/Trigonometry Placement Test. **NOTE:** Students from Algebra 1A and 1B are not eligible for this course.

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 the TI-83+ is required.

**433 HONORS ALGEBRA 2 / TRIGONOMETRY**

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “C” – Mathematics  
**NCAA:** NCAA-approved course – Mathematics  
**Prerequisites:** Honors Geometry with a grade of “B” or better both semesters or Geometry with a grade of “A” both semesters and a passing score on the Honors Algebra 2/Trigonometry Placement Test. Entering freshmen that achieve a minimum score of 10.0 in Mathematics on the Entrance Exam, have successfully completed documented Algebra I and Geometry courses with an “A,” and have passed the Honors Algebra 2/Trigonometry Placement Test. Passing score on the diagnostic test to be given on the first day of class.  
**NOTE:** Students from Algebra 1A and 1B are not eligible for this course.

This is a two-semester course treating the topics of advanced algebra in depth. In addition to the content covered in Algebra 2/Trigonometry, students will study three-dimensional graphing, solutions 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 the TI-83+ is required.

**437 STATISTICS**

**Course Length:** Year  
**Grade Level:** 12  
**A-G Designation:** “C” – Mathematics  
**NCAA:** NCAA-approved course – Mathematics  
**Prerequisites:** Algebra 2 or Algebra 2/Trigonometry with a “C” or better each semester.

This is a two-semester course that includes 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 the TI-83+ is required.

**438 AP STATISTICS**

**Course Length:** Year  
**Grade Level:** 12  
**A-G Designation:** “C” – Mathematics  
**NCAA:** NCAA-approved course – Mathematics  
**Prerequisites:** A grade of “B” or better in each semester of Algebra2/Trigonometry, and a passing score on the diagnostic test to be given on the first day of class.

This is a two-semester course designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course draws connections between all aspects of the statistical process, including design, analysis, and conclusions. Additionally, using the vocabulary of statistics this course will teach students how to communicate statistical methods, results and interpretations. Students will
learn how to use graphing calculators and read computer output in an effort to enhance the development of statistical understanding. A graphing calculator such as the TI-83+ is required. NOTE: Students enrolling in this course are expected to take the AP Statistics Exam in May. An AP Test Fee applies.

441 PRECALCULUS

Course Length: Year
Grade Level: 10-12
A-G Designation: “C” – Mathematics
NCAA: NCAA-approved course – Mathematics
Prerequisites: Algebra 2/Trigonometry with a grade of “B” or better both semesters or Honors Algebra 2/Trigonometry with a grade of “C” or better both semesters. Algebra 2 students may qualify for PreCalculus with a grade of “B” or better both semesters and pass the Trigonometry for Advancement course with a “B” or better.

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 the TI-83+ is required. The TI-89 or TI-92 calculators are not allowed.

443 AP CALCULUS AB

Course Length: Year
Grade Level: 11-12
A-G Designation: “C” – Mathematics
NCAA: NCAA-approved course – Mathematics
Prerequisites: Grade of “B” or better in each semester of Honors PreCalculus or a grade of “A” or better in PreCalculus and a passing score on the AP Calculus AB Placement Test. Passing score on the diagnostic test to be given on the first day of class.

This is a two-semester course in single variable Calculus. The course covers limits, derivatives, definite integrals of algebraic and transcendental functions, and the application of derivatives and integrals. Techniques of integration and integrals may also be covered. A graphing calculator such as the 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.

442 HONORS PRECALCULUS

Course Length: Year
Grade Level: 10-12
A-G Designation: “C” – Mathematics
NCAA: NCAA-approved course – Mathematics
Prerequisites: Grade of “B” in Honors Algebra 2/Trigonometry each semester or grade of “A” in Algebra 2/Trigonometry each semester and a passing score on the Honors PreCalculus Placement Test. Passing score on the diagnostic test to be given on the first day of class.

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

440 CALCULUS

Course Length: Year
Grade Level: 11-12
A-G Designation: “C” – Mathematics
NCAA: NCAA-approved course – Mathematics
Prerequisites: Grade of “C” or better in each semester of PreCalculus or Honors PreCalculus.

This is a two-semester course in single variable Calculus. The course covers limits, derivatives, definite integrals of algebraic and transcendental functions, and the application of derivatives and integrals. Techniques of integration and integrals may also be covered. A graphing calculator such as the 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.

450 CONSUMER MATH WITH STATISTICAL REASONING

Course Length: Year
Grade Level: 12
A-G Designation: “G” – College-Preparatory Elective
Prerequisites: Completion of Algebra 2, or Algebra 2/Trigonometry.

This course is an application of mathematical modeling that is algebra-based intended to expose students to real-world finance applications such as banking, investing, employment and income, consumer credit, automobile ownership, retirement and independent living including budgeting. Students will utilize spreadsheet data to create formulas and graphs and use statistical reasoning to understand various topics. Students will develop a portfolio of their learning over the entirety of the course.
### 445 AP CALCULUS BC

**Course Length:** Year  
**Grade Level:** 11-12  
**A-G Designation:** “C” – Mathematics  
**NCAA:** NCAA-approved course – Mathematics  
**Prerequisites:** An “A” in each semester of Calculus or a grade of “B” or better in each semester of AP Calculus AB or a grade of “A” in each semester of Honors PreCalculus and a passing score on the AP Calculus BC Placement Test. Passing score on the diagnostic test to be given on the first day of class.

This is a second course in single variable Calculus. The course will cover a deeper understanding of the concepts of 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. The course will also cover Parametric, polar, and vector functions, as well as derivatives of these functions; L'Hospital’s Rule; Euler’s Method; applications of integrals and Riemann Sums; improper integrals, antiderivatives, and approximation techniques; and polynomial approximations and series. A graphing calculator such as the TI-83+ is required. The TI-89 or TI-92 calculators are not allowed. **NOTE:** Students enrolling in this course are expected to take the AP Calculus BC Exam in May. An AP Test Fee applies.

### 1016 MATH LAB

**Course Length:** Semester  
**Grade Level:** 11-12  
**A-G Designation:** None  
**Prerequisites:** None

Designed for students who want extra support in math. Math lab will be coordinated by the math department and will provide students with targeted tutoring in order to help them develop the core math skills necessary to improve their performance in college prep math. **This course is not UC and CSU approved.**

### 443 TA AP CALCULUS AB TEACHER AIDE

**Course Length:** Year  
**Grade Level:** 12  
**A-G Designation:** None  
**Prerequisites:** Approval of AP Calculus AB Teacher

The AP Calculus AB Teacher's Aide (TA) will provide:  
**Teaching Assistance**  
- Act as a second “guide-on-the-side” during desk-work in class  
- Trouble-shoot calculus issues that students are having  
- Grade practice AP Free-Response Questions  

**Course Material Preparation**  
- Class Packet Editing and Writing Solutions  
- WebAssign Problem Selection and Writing Solutions

In this course, the TA would gain experience in one-on-one tutoring and teaching. Learning to provide clear solutions that don't skip steps is an important skill that a strong calculus student will have to learn, particularly if that student tends to skip steps in their own solutions. The TA will also consolidate his/her understanding of calculus in the process of reviewing the course material and coming up with explanations for students (preparing to teach a topic always requires us to learn the topic better ourselves).

More generally, the TA will learn the importance of reliability, patience, and precision when helping students learn. **This course is not UC and CSU approved and is taken for credit only.**
The Mater Dei High School Science Department offers a wide variety of courses to suit each student’s needs and college and career goals. In order to help students navigate our courses, the Science Department has devised the following sample pathways. Each includes at least one Life Science and at least one Physical Science. Please note that these are only samples and there are several other options to fit the unique needs of each student. Always consult your School Counselor when planning a course of study. All Science courses are both UC and CSU approved courses unless otherwise indicated.

### SAMPLE SCIENCE PATHWAYS

<table>
<thead>
<tr>
<th>Path</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>General (meets or exceeds Mater Dei graduation requirements and requirements for admission to competitive universities)</td>
<td>Biology PR, CP, HN</td>
<td>Chemistry CP, CP, HN</td>
<td>Physics CP, AP, AP Biology Anatomy &amp; Physiology CP, HN</td>
<td>Physics CP, AP, AP Biology Anatomy &amp; Physiology CP, HN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2/Trig CP, PR or higher</td>
<td>Pre-Calculus CP, PR or higher</td>
<td>Calculus CP, AP, AP, DE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biology CP, CP, HN</td>
<td>Anatomy &amp; Physiology CP, CP, CN</td>
<td>Chemistry CP, CP, HN</td>
<td>Physics AP Biology AP Chemistry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Algebra 1 CP, PR or higher</td>
<td>Geometry CP, CP or higher</td>
<td>Algebra 2/Trig CP, CP, HN or higher</td>
<td>Pre-Calculus CP, HN or higher</td>
<td></td>
</tr>
<tr>
<td><strong>Designed for students interested in engineering or Computer Science</strong></td>
<td>Biology CP, CP, HN</td>
<td>Chemistry CP, CP, HN</td>
<td>Physics CP, AP, AP Biology Anatomy &amp; Physiology CP, HN</td>
<td>Physics CP, AP, AP Biology Anatomy &amp; Physiology CP, HN</td>
<td>Robotics competitive team</td>
</tr>
<tr>
<td></td>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2/Trig CP, PR or higher</td>
<td>Pre-Calculus CP, PR or higher</td>
<td>Calculus CP, AP, AP, DE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aligned Intro to Coding</td>
<td>Robotics &amp; Engineering</td>
<td>Intro to App Development</td>
<td>Calculus CP, AP Computer Science A</td>
<td></td>
</tr>
<tr>
<td><strong>Designed for students with an interest in the medical field</strong></td>
<td>Biology CP, CP, HN</td>
<td>Chemistry CP, CP, HN</td>
<td>Physics AP Biology AP Biology Anatomy &amp; Physiology CP, HN</td>
<td>Physics AP Biology AP Biology Anatomy &amp; Physiology CP, HN</td>
<td>Pre-Med Club</td>
</tr>
<tr>
<td></td>
<td>Anatomy &amp; Physiology CP, CP, HN</td>
<td>Sports Medicine</td>
<td>Sports Medicine</td>
<td>Sports Medicine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biology 1 CP, CP or higher</td>
<td>Geometry CP, CP or higher</td>
<td>Algebra 2/Trig CP, CP, HN or higher</td>
<td>Pre-Calculus CP, HN or higher</td>
<td></td>
</tr>
<tr>
<td><strong>Designed for students with an interest in Marine Biology, careers with animals, or environmental science</strong></td>
<td>Biology PR, CP, HN</td>
<td>Chemistry CP, CP, HN</td>
<td>Physics AP Biology AP Biology Anatomy &amp; Physiology CP, HN</td>
<td>Physics AP Biology AP Biology Anatomy &amp; Physiology CP, HN</td>
<td>Environmental Club, Surfrider Foundation Club, Pacific Marine Mammal Center Club, and others</td>
</tr>
<tr>
<td></td>
<td>Anatomy &amp; Physiology CP, CP, HN</td>
<td>Zoology</td>
<td>Sports Medicine</td>
<td>Sports Medicine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biology 1 CP, CP or higher</td>
<td>Geometry CP, CP or higher</td>
<td>Algebra 2/Trig CP, CP, HN or higher</td>
<td>Pre-Calculus CP, HN or higher</td>
<td></td>
</tr>
<tr>
<td><strong>Designed for students with an interest in criminal law investigation or criminal law</strong></td>
<td>Biology PR, CP, HN</td>
<td>Chemistry CP, CP, HN</td>
<td>Physics AP Biology AP Biology Anatomy &amp; Physiology CP, HN</td>
<td>Physics AP Biology AP Biology Anatomy &amp; Physiology CP, HN</td>
<td>Mock Trial team</td>
</tr>
<tr>
<td></td>
<td>Anatomy &amp; Physiology CP, CP, HN</td>
<td>Sports Medicine</td>
<td>Sports Medicine</td>
<td>Sports Medicine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biology 1 CP, CP or higher</td>
<td>Geometry CP, CP or higher</td>
<td>Algebra 2/Trig CP, CP, HN or higher</td>
<td>Pre-Calculus CP, HN or higher</td>
<td></td>
</tr>
<tr>
<td><strong>Designed for students interested in liberal arts/ non-STEM fields</strong></td>
<td>Biology PR, CP, HN</td>
<td>Anatomy &amp; Physiology CP, CP, HN</td>
<td>Chemistry CP, CP, HN</td>
<td>Anatomy &amp; Physiology CP, CP, HN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marine Biology CP, CP, HN</td>
<td>Sports Medicine</td>
<td>Marine Biology CP, CP, HN</td>
<td>Marine Biology CP, CP, HN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zoology</td>
<td>Sports Medicine</td>
<td>Zoology</td>
<td>Zoology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Algebra 1 CP, CP or higher</td>
<td>Geometry CP, CP or higher</td>
<td>Algebra 2 CP, CP or higher</td>
<td>Pre-Calculus CP, CP or higher</td>
<td></td>
</tr>
<tr>
<td><strong>Designed for students with an interest in Chemistry or a Physical Sciences concentration</strong></td>
<td>Biology CP, CP, HN</td>
<td>Chemistry CP, CP, HN</td>
<td>AP Chemistry</td>
<td>Physics CP, AP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2/Trig CP, PR or higher</td>
<td>Calculus CP, AP, AP, DE</td>
<td>Calculus CP, AP, AP, DE</td>
<td></td>
</tr>
<tr>
<td><strong>Designed for students who enroll in Algebra IA as Freshmen</strong></td>
<td>Biology PR</td>
<td>Marine Biology CP, CP, HN</td>
<td>Geometry CP, CP or higher</td>
<td>Algebra 2 CP, CP or higher</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Algebra IA</td>
<td>Algebra IB*</td>
<td>Geometry CP, PR or higher</td>
<td>Algebra 2</td>
<td></td>
</tr>
</tbody>
</table>

* Students may take each class once

### Note

- CP designates College Prep level is offered
- HN designates Honors level is offered
- DE designates that the course may be taken as Dual Enrollment (with a pairing course)
- PR designates Principles level is offered

* Indicates the course may be taken for advancement over Summer School at Mater Dei to move ahead in the pathways.

* Students will be placed into a Science course based on prerequisites. In some cases, students may wish to request a different course after reading the course descriptions and discussing this decision with parents and their School Counselor. Please read the following written descriptions. For a visual description of the courses and/or to request a different Science course, please visit [https://sites.google.com/materdei.org/sciencecoursechange](https://sites.google.com/materdei.org/sciencecoursechange).
520   HONORS BIOLOGY

Course Length: Year
Grade Level: 9-10
A-G Designation: “D” – Laboratory Science (Biology/Life Sciences)

NCAA: NCAA-approved course – Natural/Physical Science
Prerequisites: Qualifying score/grades - Incoming Freshman – Qualifying score on the High School Entrance Exam (85% composite (NP) score, 10.0 in both Reading and Language, and concurrent enrollment in Algebra I or higher math.) Sophomores – A grade of “A” in Earth Science, both semesters, and a grade of “A” in Algebra I or “B” in Honors Algebra, both semesters. Approval of Science Department Chair.

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, biochemistry, cell structure and function, cell metabolism, cell division, genetics, DNA replication, protein synthesis, biotechnology, evolution, and comparative animal systems. In order to facilitate learning and build science skills, students will apply these concepts to a variety of hands-on labs and will engage in inquiry-based projects.

NOTE: This course requires participation in animal dissections.

521   BIOLOGY

Course Length: Year
Grade Level: 9-10
A-G Designation: “D” – Laboratory Science (Biology/Life Sciences)

NCAA: NCAA-approved course – Natural/Physical Science
Prerequisites: Qualifying score/grades - Incoming Freshman – Qualifying score on the High School Entrance Exam (70% composite (NP) score, 9.0 in both Reading and Language, and concurrent enrollment in Algebra I or higher math). Sophomores – a grade of “B” or better in Earth Science, both semesters. Approval of Science Department Chair.

This course covers biological concepts with an emphasis on problem solving. This college preparatory course is designed with an emphasis on laboratory safety and proper laboratory procedures. Students will use the scientific method to develop basic laboratory skills including the use of microscopes and completing full lab write-ups. Students will explore cell structure and function, processes of the cell, genetics, biotechnology, and evolution using a variety of hands-on labs and group projects.

NOTE: This course requires participation in animal dissections.

523   PRINCIPLES OF BIOLOGY

Course Length: Year
Grade Level: 9-10
A-G Designation: “D” – Laboratory Science (Biology/Life Sciences)

This second-year life science course introduces students to Marine Biology. This course covers all areas of the marine sciences, but specifically delves in to the physical and biological structure of the oceans. Students will study the physical attributes of the ocean, such as plate boundaries, continental margins, chemical composition, waves, tides, currents, and vertical stratification. The course then embarks on a wide survey of marine life, including prokaryotes, algae, invertebrates, fish, birds, and marine mammals. The course concludes with a detailed look into ocean ecosystems and evaluates the impact that humans have on the ocean environment.

Conservation is a recurring theme in this course, and once completed the student will have not only an appreciation for the marine environment, but the ability to critically think and analyze important issues that will impact future ocean health. 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.

524   MARINE BIOLOGY

Course Length: Year
Grade Level: 10-12
A-G Designation: “D” – Laboratory Science (Biology/Life Sciences)

NCAA: NCAA-approved course – Natural/Physical Science
Prerequisites: A grade of “C” or better in Biology OR Principles of Biology, both semesters. Approval of Science Department Chair.

This course is designed to teach biology with an emphasis on supporting the fundamental concepts of biology. This course develops and supports the skills necessary to succeed in a college-preparatory course. The content of this foundational course explores cellular structure and function, photosynthesis, cellular respiration, genetics, evolution, and classifications in the Kingdoms of life. This course exposes students to basic laboratory techniques and scientific analysis skills in assorted laboratory exercises.

NOTE: This course requires participation in animal dissection.

525   HONORS MARINE BIOLOGY

Course Length: Year
Grade Level: 10-12
A-G Designation: “D” – Laboratory Science (Biology/Life Sciences) – approval pending

NCAA: NCAA – Natural/Physical Science – approval pending
**Prerequisites:** A grade of “A” in Biology or a grade of “B” in Honors Biology (both semesters). A grade of “B” in Chemistry or “C” in Honors Chemistry (both semesters). Sophomore students who have not yet taken Chemistry may be considered if they received a “B” or better in both Honors Biology and Honors Algebra I (both semesters).

The material in this class lays a foundation for students who are interested in focusing on science in college, particularly in the marine sciences, climatology, ecosystems, or organismal studies. This advanced course examines the marine environment in detail, with a focus on data analysis, laboratory work, and projects while addressing topics throughout the class.

The course covers all topics integral to gaining an understanding of marine systems, such as: Oceanography, including ocean layering, ocean chemistry, current dynamics and ocean mixing, climate patterns, tides, and wave formation; A detailed exploration of marine life, including algae, primitive and advanced invertebrates, cartilaginous and bony fishes, marine reptiles, marine birds, and marine mammals; The ecology of the ocean, including food webs, coastal ecosystems, nearshore ecosystems, and pelagic ecosystems; A study of the impacts humans have on marine environments, such as plastic pollution, eutrophication, overfishing and overharvesting, bycatch, noise pollution, and others. This course will have field trips with hands-on lab work (highly encouraged) and in-class dissections (required).

**526 ADVANCED PLACEMENT BIOLOGY**

**Course Length:** Year
**Grade Level:** 11-12
**A-G Designation:** “D” – Laboratory Science (Biology/Life Sciences)
**NCAA:** NCAA-approved course – Natural/Physical Science
**Prerequisites:** “A” in Biology or “B” in Honors Biology and “A” in Chemistry or “B” in Honors Chemistry. Concurrent enrollment in pre-calculus, calculus, or higher math course is also required. Approval of Science Department Chair.

This course extends in breadth and depth the biological concepts presented in the Biology/Honors Biology course to a level of study commensurate with a second year course in college Biology and a Biology lab course 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, group discussions, laboratory skills, problem solving, and expository science writing in preparation for the Advanced Placement Exam in Biology.

This course follows the Advanced Placement Biology standards as outlined by the College Board. The course focuses on the four “Big Ideas” that unite all of biology (evolution, energy, information, and interactions). The course also emphasizes the application of seven “Science Practices” that are essential across scientific disciplines. These include interpreting models and representations, mathematics, questioning, data collection, data analysis and evaluation, understanding explanations and theories, and making connections.

Many of the science practices require the application of mathematics. As a result, this course offers students the chance to practice the high-level math skills that they will need for success on the Advanced Placement Exam and in college science courses.

**NOTE:** A minimum of 25 students are required for this class to be offered. All students are required to pay for and take the Advanced Placement Exam.

**528 FORENSIC SCIENCE**

**Course Length:** Year
**Grade Level:** 11-12
**A-G Designation:** “G” – College-Preparatory Elective
**NCAA:** NCAA-approved course – Natural/Physical Science
**Prerequisites:** “C” or better in Biology, Chemistry and Algebra I, both semesters. Approval of Science Department Chair.

Forensic science is a laboratory-based introduction to the analysis of crime scenes by collecting and analyzing physical evidence. This course is designed to integrate the core scientific disciplines (as outlined in the California State Science Standards for grades 9-12) while giving students both theory and hands-on experience with the skills and knowledge required of a forensic crime scene investigator. This multidisciplinary approach will highlight topics in DNA, genetics, anatomy, chemistry, physics, entomology, botany, and investigative techniques with supplemental subject matter through case studies, earth science, mathematics, medicine, technology and sociology. In addition, the ethical, legal, and social concerns surrounding forensics will be discussed.

Sample evidence for analysis will include, but is not limited to, fingerprints, DNA, projectiles and trajectories, hair, fibers, toxicology, blood spatter patterns, ballistics, chromatography, entomology, soil samples, flowers, and impressions. Process skills will include comparative analysis, critical thinking, deductive reasoning, interviewing, observation, organization, problem solving, research, communication, evidence collection, lab safety, and technical reading. Project-based learning through laboratory investigations and discussions/class lecture will serve as the main method of content delivery.

**NOTE:** This course is a level “g” UC approved course.

**530 PRINCIPLES OF CHEMISTRY**

**Course Length:** Year
**Grade Level:** 10-12
**A-G Designation:** “D” – Laboratory Science (Chemistry)
**NCAA:** NCAA-approved course – Natural/Physical Science
**Prerequisites:** A grade of “C” or better in Biology or Principles of Biology, both semesters. A grade of “C” or better in Geometry or Principles of Geometry, both semesters. Grades of “C” or better in Algebra I or Algebra 1A/1B, both semesters. Concurrent
enrollment in Algebra 2 or a higher Math course. Approval of Science Department Chair.

This physical science course with laboratory is an introduction in concepts of modern chemistry. The course emphasizes: data analysis, structure of the atom and modern atomic theory, periodic properties, bonding, stoichiometry, types of chemical reactions, states of matter, solutions, thermodynamics and equilibrium. Students will be required to keep a laboratory notebook for lab work performed in class. Students will develop observation skills, practice their reasoning ability, further develop critical thinking skills, apply chemical principles learned in the classroom as well as develop scientific writing skills by writing college style lab reports.

531 HONORS CHEMISTRY

Course Length: Year
Grade Level: 10-11
A-G Designation: “D” – Laboratory Science (Chemistry)
NCAA: NCAA-approved course – Natural/Physical Science
Prerequisites: A grade of “A” in Biology, both semesters. A grade of “A” in Algebra I or a “B” or better in Honors Algebra I, both semesters. A grade of “B” or better in Geometry or a “C” or better in Honors Geometry, both semesters. Concurrent enrollment in Algebra II/Trig or a higher Math course. (Summer school math grades may not be used to meet the eligibility requirement). Approval of Science Department Chair.

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, as well as college style lab reports.

532 CHEMISTRY

Course Length: Year
Grade Level: 10-11
A-G Designation: “D” – Laboratory Science (Chemistry)
NCAA: NCAA-approved course – Natural/Physical Science
Prerequisites: Qualifying grades - A grade of “B” or better in Biology or “A” in Principles of Biology, both semesters. A grade of “B” or better in Algebra I, both semesters. A grade of “C” or better in Geometry, both semesters. Concurrent enrollment in Algebra II/Trig or a higher Math course is recommended. Students who meet all of the prerequisites may take Algebra 2 concurrently. Approval of Science Department Chair.

This physical science course with laboratory and demonstrations studies the basic laws of chemistry. The course emphasizes problem solving skills and analysis, structure of the atom, modern atomic theory with quantum mechanics, periodic law, chemical bonding, balancing chemical equations, stoichiometry, states of matter including gas laws, solutions, acid/base chemistry, thermodynamics, equilibrium and kinetics. The laboratory portion of this course emphasizes data collection and analysis and students are expected to submit written college style lab reports to emphasize and develop critical thinking skills and scientific writing.

533 AP CHEMISTRY

Course Length: Year
Grade Level: 10-11
A-G Designation: “D” – Laboratory Science (Chemistry/Physical Sciences) – approval pending
NCAA: NCAA – Natural/Physical Science – approval pending
Prerequisites: Grades of “B” or better in Honors Chemistry both semesters. Grades of “A” in Algebra II/Trig or “B” or better in Honors Algebra II/Trig. Pre-Calculus or Honors Pre-Calculus is to be taken concurrently or previously to this course. Approval of Science Department Chair is required.

This college-level Chemistry course is designed to be taken after successful completion of Honors Chemistry. This course will prepare the student to take and pass the AP Chemistry exam in May. Students will use an AP Chemistry textbook, perform numerous advanced laboratory experiments and prepare written college style lab reports as required by the College Board. Laboratory will be 25% of this course. Students are expected to keep a detailed laboratory notebook where data collection, computations and analysis are emphasized. The course of study will follow the standards set by the College Board for AP Chemistry. Coursework will encompass the 6 big ideas as outlined in the College Board AP website. They are: (1) Elements are the fundamental building materials of matter and matter can be understood in terms of arrangements of atoms; (2) Chemical and physical properties of materials can be explained by the structure and the arrangement of atoms and the intermolecular forces between them; (3) Changes in matter involve the breaking of and rebuilding of atomic bonds; (4) Rates of reactions are dependent upon the kinetic molecular theory and molecular collision model involving the concentrations of those molecules; (5) Predicting changes in matter is energy dependent and can be explained using the laws of thermodynamics and equilibrium; (6) Intermolecular and Intramolecular forces are in dynamic equilibrium and are affected by initial conditions and external variances of the system. In addition, the 7 Science Practices for AP Chemistry as outlined by the College Board will be emphasized during this course.

535 ZOOLOGY

Course Length: Year
Grade Level: 10-12
A-G Designation: “D” – Laboratory Science (Biology/ Life Sciences) – approval pending
NCAA: NCAA – Natural/Physical Science – approval pending
Prerequisites: A grade of a “C” or better in Biology, or a “B” or better in Principles of Biology. A grade of a “C” or better in Algebra/Algebra 1A/1B.

The course will focus on the kingdom of Animalia and will build on the previous knowledge from the student’s Biology course. The students will be engaged with hands on learning of the
different phyla (Sponges, Jellyfish, Flatworms, Roundworms, Mollusks, Crustaceans, Fish, Reptiles, Birds, and Mammals) within the Animalia kingdom with a focus on the evolutionary and ecological relationships of the organisms between themselves and their surroundings. A major emphasis will be placed on comparative anatomy, laboratory studies (including dissections of organisms as well as ecological surveys), natural history, and ecological/phylogenetic relationships. Much of the course will be built around designing and implementing laboratory inquiries, collecting and analyzing data, and presenting their findings to their peers.

*This course will require participation in multiple animal dissections.

### 536 SPORTS MEDICINE

**Course Length:** Year  
**Grade Level:** 10-12  
**A-G Designation:** “D” – Laboratory Science (Biology/Life Sciences) – approval pending  
**NCAA:** NCAA – Natural/Physical Science – approval pending  
**Prerequisites:** Qualifying Grades - A grade of “B” or better in Biology or “A” in Principles of Biology, both semesters. Approval of Science Department Chair.

This comprehensive course focuses on the area of health and medicine that applies to the prevention, recognition, management and rehabilitation of sports-related injuries. In addition, it introduces and helps to prepare the students for the professions of athletic training, physical therapy and exercise physiology, as well as other career options. This course will provide an opportunity for the study and application of the components of sports medicine including, but not limited to: educational pathways and careers, prevention and recognition of sports-related injuries, evaluation and immediate care of athletic injuries, rehabilitation skills, taping and wrapping techniques, sports psychology, nutrition, general fitness and conditioning, emergency management, response and care, substance abuse, stress and wellness, anatomy and physiology of various body systems, professionalism, ethics and legal considerations.

Students will also have the opportunity to earn CPR, AED and first-aid certifications, as well as exposure to expert guest speakers from the various specialties of sports medicine. Additionally, there will be case studies used throughout the course to promote the growth of foundational knowledge, possible internship and field trip opportunities, as well as required lab hours spent observing activities in athletic training and sports facilities.

### 542 HUMAN ANATOMY AND PHYSIOLOGY

**Course Length:** Year  
**Grade Level:** 10-12  
**A-G Designation:** “D” – Laboratory Science (Biology/Life Sciences)  
**NCAA:** NCAA-approved course – Natural/Physical Science  
**Prerequisites:** Qualifying grades - A grade of “B” or better in Biology or “A” in Principles of Biology, both semesters. A grade of “B” or better in Algebra I, both semesters. Approval of Science Department Chair.

This course is an in-depth study of the structure and function of the systems of the human body. This course is designed for anyone who wants to learn about the human body, but is of particular interest to those considering a health related profession. Each body system will be studied in terms of organizational levels, starting at the cellular level and proceeding through to an analysis of specific organ systems. Students will learn about body organization, the tissues of the body, and study the integumentary, skeletal, muscular, nervous, cardiovascular, immune, respiratory, digestive, urinary, reproductive, and endocrine systems in more detail. 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. This is a college preparatory lab science course. Laboratory work will be required and heavily emphasized, and may include anatomical dissection of the brain, eye, and fetal pig. Hands-on laboratory practicums serve as additional assessments to the curriculum.

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

### 543 HONORS ANATOMY AND PHYSIOLOGY

**Course Length:** Year  
**Grade Level:** 10-12  
**A-G Designation:** “D” – Laboratory Science (Biology/Life Sciences)  
**NCAA:** NCAA-approved course – Natural/Physical Science  
**Prerequisites:** A grade of an “A” in Biology both semesters. A grade of a “B” or better in Chemistry or a “C” or better in Honors Chemistry. A grade of a “B” or better in Geometry, both semesters. Alternatively, if a student has not taken Chemistry and Geometry, but received a “B” or better in Honors Biology and a “B” or better in Honors Algebra I, they may be considered. Approval of Science Department Chair.

This course is preparation for advanced biological studies, premedical studies, biomedical nursing and other health/medical field based careers. This course examines the detailed inner workings of the human body, specifically the tissues, integumentary, skeletal, muscular, nervous, cardiovascular, immune, respiratory, digestive, urinary, reproductive and endocrine systems, as well as joints and movement. Each body system will be studied in terms of organizational levels, starting at the cellular level and proceeding through to an analysis of the specific organs and their functions. Emphasis will be devoted to the structure and functions of these various organ systems to ensure recognition of the coordinated homeostatic functioning of the human body. Diagrams of macro and microscopic anatomy will be used to display the various levels of anatomical organization, as well as the physiological reasoning behind it. Practicums will serve as additional assessments to the curriculum.
Case studies, including diseases, genetic disorders, and bioethical issues of the human systems will be a supplementary key to integrating knowledge through application. Laboratory work will be required and heavily emphasized, which may include anatomy dissection of a fetal pig, cow femur, sheep eye, brain, heart and kidney. Possible Supplementary Co-curricular Activities/Field Trips: Visit to St. Joseph’s Hospital for a hands-on experience with the Da Vinci robot and exploring Bodies the Exhibition. Scrubs for a Day: Surgeons of the Future at UCI Medical School, Urology Department; Visiting the Orange County Medical Examiners/Coroner’s Office; Visiting UCI’s Medical school to follow interns and residents; Visiting UCI’s Medical School to observe cadaver dissections.

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

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### 544 PHYSICS

**Course Length:** Year  
**Grade Level:** 11-12  
**A-G Designation:** “D” – Laboratory Science (Physics)  
**NCAA:** NCAA-approved course – Natural/Physical Science  
**Prerequisites:** Qualifying grades - Grades of “B” or better in Biology, Chemistry, and Algebra II / Trig, both semesters. A grade of “B” in Pre-Calculus, both semesters OR concurrent enrollment in Pre-Calculus or Trigonometry. Approval of Science Department Chair.

This course will utilize the student’s mental processes of logic and problem solving and knowledge of mathematical manipulation.

Physics is a fundamental 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, work, energy, sound, light, electricity, and magnetism. Upon successful completion of this course, students may choose to take Advanced Placement Physics.

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### 546 ADVANCED PLACEMENT PHYSICS 1

**Course Length:** Year  
**Grade Level:** 11-12  
**A-G Designation:** “D” – Laboratory Science (Physics)  
**NCAA:** NCAA-approved course – Natural/Physical Science  
**Prerequisites:** Qualifying grades - Grades of A in all math and science courses with no more than one B grade. Concurrent enrollment in pre-calculus, calculus, or higher math course. Approval of Science Department Chair.

AP Physics 1 is an introductory, algebra-based, college-level physics course. Students will utilize inquiry-based laboratory investigations to form the foundation of their understanding of physics. This course covers topics such as Newtonian mechanics, rotational motion, work, energy, power, mechanical waves, sound, and simple circuits.

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

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### 501 ROBOTICS AND ENGINEERING

**Course Length:** Year  
**Grade Level:** 9-12 (no experience required)  
**A-G Designation:** “G” – College-Preparatory Elective  
**NCAA:** NCAA-approved course – Natural/Physical Science  
**Prerequisites:** Concurrent enrollment in Algebra I or higher Math course and Biology or a higher level Science course.

The course is designed to introduce the basic principles of engineering through robotics based projects. Students will learn engineering practices throughout the semester covering the primary topics of Computer Aided Design (CAD), programming, and basic mechanical and electrical areas.

Students will have hands on learning with scaffolded projects that will eventually lead to the designing and building of a robot with motors, controllers, sensors, and other mechanical features. Students will be acquainted with the design process using CAD and the classroom 3D Printer.

Students will also develop practical application of the engineering process through case studies analysis and their collaborative group work throughout the year.

**NOTE:** This course is a level "g" UC approved course.

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### 939 SCIENCE LAB ASSISTANT

**Course Length:** Semester, option to continue second semester  
**Available blocks 1-8. No more than one student per block.**  
**Grade Level:** 10-12  
**A-G Designation:** None  
**Prerequisites:** A grade of “B” or better in Biology and Chemistry. 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 skills as a future 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.

**NOTE:** This course is a credit-only course; no letter grade will be given. This course is not a UC or CSU approved course.
707 AP COMPUTER SCIENCE A

Course Length: Year
Grade Level: 11-12 (interested 10th grade students, reach out to Department Chair)
A-G Designation: “G” – College-Preparatory Elective
NCAA: NCAA-approved course – Mathematics
Prerequisites: Completion of Algebra 1 with a “B” or better in both semesters. Completion of Intro to Coding and concurrent enrollment in Algebra 2 or a higher Math course strongly recommended.

Students will learn to design and implement computer programs that solve problems relevant to today’s society. They will learn how to compile and run a Java program while learning how to use arithmetic, relational and logical operators. They learn to create classes, methods and objects. Students will learn to implement object-oriented programming design. Students will work on problem solving and algorithm development, using hands-on experiences so that students can apply programming tools and solve complex problems. This course will prepare students for the AP Exam.

1029 INTRO TO APP DEVELOPMENT WITH SWIFT

Course Length: Year
Grade Level: 10-12
A-G Designation: “G” – College-Preparatory Elective
Prerequisites: Completion of Intro to Coding preferred

Students will learn to design and create iOS apps. Students will leverage Swift, the iOS software development kit, and Apple developer tools including Xcode. With an iPad and iOS as the platform, students will learn object-oriented programming, design patterns, type systems, functional language features, user interface design, best practices in programming, and problem analysis.

1028 INTRO TO CODING

Course Length: Year
Grade Level: 9-12
A-G Designation: “G” – College-Preparatory Elective
Prerequisites: None

In this one-year course student will be exploring the fundamentals of Swift Playgrounds, the programming language used to create applications for Apple products, Code.org, Sphero Edu Robots and other technology driven platforms. Students will do interactive puzzles that teach them key programming concepts in ways that are both challenging and fun. In this course students will develop coding skills that become the foundation of their programming knowledge.
WORLD LANGUAGES REQUIREMENTS
Two years of the same world language are required to meet Mater Dei graduation requirements. In order to progress to the next level, a student must earn a “C” or better at the end of both semesters. To begin a new world language after two years, a student must have successfully completed two years of one world language with at least a grade of “C” at each semester. Honors students must receive a “B” or better first semester to keep their placement in the class.

INCOMING LANGUAGE PLACEMENT TEST
In May, a Language test is offered to incoming Mater Dei students. This test is primarily for students who have had previous language study in Chinese, French, Latin, or Spanish in middle school. The purpose of this test is to find out whether or not a student is capable of beginning a world language beyond level I. Based upon the results of this test a student will be placed in Level I, Level I Honors (when available), Level II, or Level II Honors (when available) of his/her chosen world language. There is also a placement test for native speakers.

WORLD LANGUAGES COURSES
* All World Languages courses are both UC and CSU approved courses unless otherwise indicated.
* All World Languages courses are year-long courses open to freshman, sophomores, juniors and seniors who meet course prerequisites.

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<th>Classes Offered</th>
<th>Spanish</th>
<th>Latin</th>
<th>French</th>
<th>Chinese</th>
<th>American Sign Language</th>
<th>Elective</th>
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<tr>
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<td>Spanish I</td>
<td>Latin I</td>
<td>French I</td>
<td>Chinese I</td>
<td>ASL I</td>
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SPANISH

600 SPANISH I

Course Length: Year  
Grade Level: 9-12  
A-G Designation: “E” – Language Other than English  
NCAA: NCAA-approved course – Additional Core Courses  
Prerequisites: None

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

601 HONORS SPANISH I

Course Length: Year  
Grade Level: 9-12  
A-G Designation: “E” – Language Other than English  
NCAA: NCAA-approved course – Additional Core Courses  
Prerequisites: None

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

609H HONORS BI-LINGUAL SPANISH (Spanish for Native Speakers)

Course Length: Year  
Grade Level: 9-12  
A-G Designation: “E” – Language Other than English  
Prerequisites: Incoming students must take the Bi-Lingual Spanish Placement Exam (which includes a speaking component) and will be placed according to the results.

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 bilingual student to advance his or her reading, writing, and spelling skills. Students who earn a “B” in both semesters of this class move on to AP Spanish Language and Culture.
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

Course Length: Year
Grade Level: 9-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: Overall GPA of 3.0, “A” in both semesters of Spanish I or a “B” or better in both semesters of Honors Spanish I. For incoming students, an 88% or better on the Spanish Placement Exam.

This course continues to develop deeper 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. This course is taught at an accelerated pace and covers a more extended curriculum than Spanish II.

605 SPANISH III

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: A “C” or better in both semesters of Spanish II or Honors Spanish II.

This course offers continued practice opportunities in which reading and writing are demonstrated 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.

606 HONORS SPANISH III

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: Overall GPA of 3.0, an “A” in both semesters of Spanish II or “B” or better in both semesters of Honors Spanish II or a “B” or better in both semesters of Bilingual Spanish.

This course offers continued practice opportunities in which reading and writing are demonstrated 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. This course is solely conducted in the target language at an accelerated pace and covers a more extended curriculum than Spanish II.

610 SPANISH IV

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: A “C” or better in both semesters of Spanish III or Honors Spanish III.

This course provides specific reading practice using selections from the 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.

607 ADVANCED PLACEMENT SPANISH LITERATURE AND CULTURE

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: Overall GPA of 3.0, an “A” in both semesters of Spanish III or a “B” or better in both semesters of Honors Spanish III, Honors Bilingual I or Spanish IV.

This is a survey course that provides specific reading practice using selections from the literature of Spanish and Spanish-American authors. The main emphasis of the course is continued reading, writing, and listening activities in preparation for the AP Exam in May. The College Board Advanced Placement Test must be taken in May. An AP Test Fee applies.

608 ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: Overall GPA of 3.0, an “A” in both semesters of Spanish III or a “B” or better in both semesters of Honors Spanish III, Honors Bilingual I or Spanish IV.

The main goal of the course is to enhance communication skills in Spanish with an emphasis on speaking, writing, listening and cultural awareness in preparation for the AP Exam in May. The College Board Advanced Placement Test must be taken in May. An AP Test Fee applies.
LATIN

612 LATIN I

Course Length: Year
Grade Level: 9-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: None

This course introduces students to Roman civilization of the first century AD by studying basic grammar, vocabulary, English derivatives, and cultural topics. Topics range from the study of the basics of Latin as an inflected language, to important English derivatives, to everyday Roman life in Pompei, Britannia, and Alexandria.

620 HONORS LATIN I

Course Length: Year
Grade Level: 9-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: Admission is based on scores from the School Entrance Exam or qualification for Honors English 1.

This course covers all aspects of the Latin I course as well as begins to teach students rudimentary Latin composition, guides students in more extensive translations, and includes outside reading, especially reading, discussing, and reflecting on Homer’s epic, “The Odyssey.”

613 LATIN II

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: A “C” average or better in both semesters of Latin I or Honors Latin I. OR, for incoming students, a 70% or better on the Latin Placement Exam.

This course continues from last year’s investigation Roman civilization in the first century AD through grammar, vocabulary, English derivatives, and culture. Topics range from the study of the subjunctive mood, to Roman religion, to the Roman military.

617 HONORS LATIN II

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: At least an “A” grade in one semester of Latin I and at least a “B” grade in the other semester of Latin I. OR a “B” average or better in both semesters of Honors Latin I. OR, for incoming students, an 80% or better on the Latin Placement Exam.

This course covers all aspects of the Latin II course as well as continues to teach students more fluid Latin composition, guides students in individual translation, and includes outside reading, especially reading, discussing and reflecting on Homer’s epic, “The Iliad.”

614 LATIN III

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: A “C” average or better in both semesters of Latin II or Honors Latin II.

This course continues the previous two years’ investigation of Roman civilization in the first century AD through grammar, vocabulary, English derivatives, and culture. Topics range from the remaining prominent grammatical structures (such as the passive voice and final forms and uses of the subjunctive) to society and culture in Domitian’s Rome. Readings will include the ancient prose authors Pliny and Julius Caesar and the poets Martial and Ovid.

618 HONORS LATIN III

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: At least an “A” grade in one semester of Latin II and at least a “B” grade in the other semester of Latin II. OR a “B” average or better in both semesters of Honors Latin II.

This course covers all aspects of the Latin III course as well as advances students to more fluent and regular Latin composition, guides students in individual translation of ancient Latin authors, and includes outside reading, especially reading, discussing and reflecting on Ovid’s epic, “The Metamorphoses.”

616 ADVANCED PLACEMENT LATIN

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: At least an “A” grade in one semester of Latin III and at least a “B” grade in the other semester of Latin III. OR a “B” average or better in both semesters of Honors Latin III.

This course covers all aspects of the Latin III course as well as advances students to more fluent and regular Latin composition, guides students in individual translation of ancient Latin authors, and includes outside reading, especially reading, discussing and reflecting on Ovid’s epic, “The Metamorphoses.”

The AP LATIN course focuses on the in-depth study of selections from two of the greatest works in Latin literature: Vergil’s Aeneid and Caesar’s Gallic Wars. The course requires students to prepare and translate the readings and place these texts in a context of other works from Roman civilization.
meaningful context, which helps develop critical, historical, and literary sensitivities. Throughout the course, students consider themes in the context of ancient literature and bring these works to life through rigorous classroom discussions, debates, and presentations. Additional English readings from both of these works help place the Latin readings in a significant context. An AP Exam Fee applies.

**FRENCH**

**621 FRENCH I**

Course Length: Year  
Grade Level: 9-12  
A-G Designation: “E” – Language Other than English  
NCAA: NCAA-approved course – Additional Core Courses  
Prerequisites: None  

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

**622 FRENCH II**

Course Length: Year  
Grade Level: 10-12  
A-G Designation: “E” – Language Other than English  
NCAA: NCAA-approved course – Additional Core Courses  
Prerequisites: A “C” or better in both semesters of French I or, for incoming students, a 70% or better on the French Placement Exam.

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**

Course Length: Year  
Grade Level: 10-12  
A-G Designation: “E” – Language Other than English  
NCAA: NCAA-approved course – Additional Core Courses  
Prerequisites: Overall GPA of 3.0, an “A” in both semesters of French I or, for incoming students, a 70% or better on the French Placement Exam.

This course continues the learning skills in French with equal stress on each of the four general language skills and includes reading for comprehension. This course is taught at an accelerated pace and covers a more extensive curriculum than French II.

**624 FRENCH III**

Course Length: Year  
Grade Level: 10-12  
A-G Designation: “E” – Language Other than English  
NCAA: NCAA-approved course – Additional Core Courses  
Prerequisites: A “C” or better in both semesters of French II or Honors French II.

This course offers continued practice opportunities in which reading and writing are demonstrated to a greater extent than in French 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.

**625 HONORS FRENCH III**

Course Length: Year  
Grade Level: 10-12  
A-G Designation: “E” – Language Other than English  
NCAA: NCAA-approved course – Additional Core Courses  
Prerequisites: Overall GPA of 3.0, an “A” in both semesters of French II. OR a “B” or better in both semesters of Honors French II.

This course offers continued practice opportunities in which reading and writing are demonstrated to a greater extent than in French 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. This course is taught at an accelerated pace and covers a more extensive curriculum than French III.

**628 FRENCH IV**

Course Length: Year  
Grade Level: 10-12  
A-G Designation: “E” – Language Other than English  
NCAA: NCAA-approved course – Additional Core Courses  
Prerequisites: A “C” or better in both semesters of French III or Honors French III.

This course provides specific reading practice using selections from literature of French authors. French history is highly emphasized. The main goal of the course is continued communication in French. It also provides a complete review of grammar covered in previous years.

**627 ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE**

Course Length: Year  
Grade Level: 10-12  
A-G Designation: “E” – Language Other than English  
NCAA: NCAA-approved course – Additional Core Courses  
Prerequisites: Overall GPA of 3.0, and an “A” in both semesters of French III. OR, at least an “B” or better in both semesters of Honors French III.

The main goal of the course is to enhance communication skills in French with an emphasis on speaking, writing, listening and cultural awareness in preparation for the AP Exam in May. The College Board Advanced Placement Test must be taken in May. An AP Test Fee applies.
630 CHINESE I

Course Length: Year
Grade Level: 9-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: None

This course offers an introduction to Chinese language and culture to students who have little or no background in Chinese. Students will learn the basics of the spoken and written language using the Pinyin system. Students will develop basic listening, speaking, reading, and writing abilities in Mandarin Chinese. Upon completion of the course, students will possess basic vocabulary, be able to comprehend and use basic conversational Chinese, write simple sentences, and be familiar with aspects of daily life and customs in China.

636 HONORS CHINESE I

Course Length: Year
Grade Level: 9-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: Admission is based on scores from the School Entrance Exam.

Honors Chinese I offers an introduction to Chinese language and culture to students who have little or no background in Chinese. Students will learn the basics of the spoken and written language using the Pinyin system, will be challenged to work at a faster pace, improve their Chinese writing, reading, speaking, and listening skills through more extensive communication practices, and be required to present additional projects that will enhance their ability to compare and contrast the Chinese language and culture with their own. This course will prepare students to succeed in Honors Chinese II.

631 CHINESE II

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: A “C” average or better in both semesters of Chinese I. OR, for incoming students, a 70% or better on the Chinese Placement Exam.

This is an intermediate level, integrated course which focuses on daily conversational and written Chinese language development. Students will continue to strengthen and expand their understanding of the written and spoken language. It is designed to improve language skills in listening, speaking, reading and writing and building up vocabulary and sentence structures. Students will continue to gain knowledge of Chinese geography, history, and culture.

637 HONORS CHINESE II

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: At least an “A” grade in one semester of Chinese I and at least a “B” grade in the other semester of Chinese I OR a “B” average or better in both semesters of Honors Chinese I. OR, for incoming students, an 80% or better on the Chinese Placement Exam.

Honors Chinese II is a continuation of the Honors Chinese I course. This is an intermediate level, integrated course which focuses on daily conversational and written Chinese language development. It is designed to improve the four language skills in listening, speaking, reading and writing and building up students’ vocabulary. Students will continue the development of their spoken and written language skills with the use the Pinyin System although the emphasis and use of simplified characters will continue to expand. The course will enhance student’s ability to communicate about an increased variety of topics in a clear, culturally appropriate and well-organized manner. Students will be able to comprehend more complex authentic oral and written material and will be able to compose well-organized essays in response to prompts. This course will prepare students to succeed in Honors Chinese III.

633 CHINESE III

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: A “C” or better in both semesters of Chinese II.

This intermediate-advanced level integrated course offers a more rigorous study of Chinese, focusing on daily conversational and written Chinese language development. Students will continue to strengthen and expand their understanding of the written and spoken language skills acquired in Chinese II. It is designed to improve language skills in listening, speaking, reading and writing and building up vocabulary and sentence patterns in the context of Culture, Connections, and Comparisons. Students will be expected to read short stories outside the textbook to help them improve their knowledge of Chinese characters and sentence structures, enhance their reading comprehension skills, and enrich their understanding of the Chinese culture.

638 HONORS CHINESE III

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: At least an “A” grade in one semester of Chinese II and at least a “B” grade in the other semester of Chinese II. OR a “B” average or better in both semesters of Honors Chinese II.
Honors Chinese III is an intermediate-advanced, immersion course conducted in Mandarin designed for students who have successfully completed Honors Chinese II and who have a very strong interest in continuing their Chinese studies. The goal of this course is to refine students’ Chinese language proficiency in the four skill areas (listening, speaking, reading, and writing) and cultural competencies by building on the foundation developed in the first and second years of Mandarin Chinese studies. Upon completion of the course, students will be able to understand Mandarin spoken by native speakers and fluently engage in conversations with routine tasks and some social situations with ease and confidence as well as continue to perfect their pronunciation and tones for accuracy. Students will continue to advance communicative functions, grammar, vocabulary, idioms, and structures with an increased emphasis on reading and writing. For each thematic unit, students will demonstrate their level of Mandarin Chinese proficiency through key assignments such as writing short stories and/or creating skits. Students will continue to study and master simplified characters.

634 CHINESE IV

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: At least a “C” or better in both semesters of Chinese III.

This advanced level integrated course offers a highly rigorous study of Chinese, focusing on daily conversational and written Chinese language development. Students will continue to strengthen and expand their understanding of the written and spoken language skills acquired in Chinese III. It is designed to improve language skills in listening, speaking, reading and writing and building up vocabulary and language patterns in the context of Culture, Connections, and Comparisons. Students will be expected to continue to read short stories outside the textbook to help them improve their knowledge of Chinese characters and language patterns, enhance their reading comprehension skills, and enrich their understanding of the Chinese culture.

639 HONORS CHINESE IV

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: At least an “A” grade in one semester of Chinese III and at least a “B” grade in the other semester of Chinese III. OR a “B” average or better in both semesters of Honors Chinese III.

Honors Chinese IV is designed for students who have successfully completed Honors Chinese III. This advanced level integrated course offers a highly rigorous study of Chinese, focusing on daily conversational and written Chinese language development.

Honors Chinese IV covers all aspects of the regular Chinese IV course, pre-AP Chinese material, and additional reading of advanced Chinese Readers Series. Students will be challenged to work at a faster pace, improve their Chinese writing, reading, speaking, and listening skills through more extensive communication practices, and be required to present additional projects that will enhance their ability to compare and contrast the Chinese language and culture with their own. This course will prepare students to succeed in college level Chinese courses.

AMERICAN SIGN LANGUAGE

640 AMERICAN SIGN LANGUAGE I

Course Length: Year
Grade Level: 9-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: None

American Sign Language (ASL) I will introduce students to the vocabulary, grammar, Deaf culture, and history. Grammar will be introduced in context, with an emphasis on developing conversational skills. Expressive and receptive signing skills will be practiced through dialogues, projects, and presentations. Students are expected to practice and study outside the classroom and attend Deaf events in the community.

641 AMERICAN SIGN LANGUAGE II

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: A least a “C” or better in both semesters of ASL I.

This course will expand on the concepts learned in American Sign Language I. Students will continue to learn communication skills, the structure/grammar of ASL, Deaf Culture, and history. In addition to homework and projects, students are expected to practice and study outside the classroom and attend Deaf events in the community.

642 AMERICAN SIGN LANGUAGE III

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: At least a “C” or better in both semesters of ASL II.

This course continues to develop deeper language skills through receptive, expressive, and translating activities. Specific practice in receptive and expressive skills continue to appear at a level of difficulty corresponding to the ever-accumulating content of the program. Students are introduced to interpreting, both English to ASL, and ASL to English. The main goal of the course is near-native fluency in ASL. There is a course fee of $20 to help cover the costs of transportation and events.
American Sign Language IV

Course Length: Year
Grade Level: 10-12
A-G Designation: “E” – Language Other than English
NCAA: NCAA-approved course – Additional Core Courses
Prerequisites: At least “C” or better in both semesters of ASL III.

The major concepts of American Sign Language (ASL) IV focus on linguistic and interpreting skills and cultural storytelling. The course, which is conducted exclusively in ASL, fully prepares students for real-world ASL interactions through new and more challenging assignments. Students will increase their vocabulary and their knowledge of Deaf culture and history, while developing and improving their communication skills, both receptively and expressively. Students continue to learn how to interpret, both English to ASL, and ASL to English. The main goal of the course is near-native fluency in ASL.
**PERFORMING ARTS**

**UC/CSU - “F” VISUAL/PERFORMING ARTS REQUIREMENT:**
1 yearlong course or 2 semester courses from the same discipline required. One year chosen from the following disciplines: dance, music, theater, visual arts or interdisciplinary arts. A single course taken over two academic years is acceptable.

<table>
<thead>
<tr>
<th>Classes Offered</th>
<th>Instrumental</th>
<th>Theatre Arts</th>
<th>Movement-Based</th>
<th>Choral</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marching Band</td>
<td>Theatre I</td>
<td>Dance I</td>
<td>Women’s Ensemble</td>
<td></td>
</tr>
<tr>
<td>Concert Band</td>
<td>Theatre II</td>
<td>Dance II</td>
<td>Men’s Ensemble</td>
<td></td>
</tr>
<tr>
<td>Symphonic Band</td>
<td>Theatre III</td>
<td>Dance III</td>
<td>Hn Chamber Singers</td>
<td></td>
</tr>
<tr>
<td>Percussion</td>
<td>Hn Advanced Theatre IV</td>
<td>Dance Company</td>
<td>Advanced Women’s Ensemble</td>
<td></td>
</tr>
<tr>
<td>Guitar Class</td>
<td></td>
<td></td>
<td>Concert Choir</td>
<td></td>
</tr>
<tr>
<td>Advanced Guitar-Media Production</td>
<td></td>
<td></td>
<td>Intermediate Women’s Ensemble</td>
<td></td>
</tr>
<tr>
<td>Hn Wind Ensemble</td>
<td></td>
<td></td>
<td>Essentials of Music</td>
<td></td>
</tr>
<tr>
<td>Orchestra</td>
<td></td>
<td></td>
<td>Vocal Workshop: Musical Theatre</td>
<td></td>
</tr>
<tr>
<td>Jazz Band</td>
<td></td>
<td></td>
<td>AP Music Theory</td>
<td></td>
</tr>
<tr>
<td>Handbell Ensemble</td>
<td></td>
<td></td>
<td>Choral Assistant</td>
<td></td>
</tr>
<tr>
<td>Band Assistant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*All performing arts courses are UC and CSU approved courses unless otherwise indicated.

**INSTRUMENTAL**

**806 MARCHING BAND**

**Course Length:** Semester  
**Grade Level:** 9-12  
**A-G Designation:** None  
**Prerequisites:** Students should be co-enrolled in an instrumental music course (Beginning Band, Symphonic Band, or Honors Wind Ensemble); Parent Bingo-Fundraising Participation Required and Fees Apply.

Open to all students. This competitive group performs at home football, and at local and regional competitions and festivals. Summer Camp, afterschool rehearsals and performances are mandatory. No previous marching or musical experience is necessary. Fall Semester Course. **This course is not UC and CSU approved.**

**803 CONCERT BAND**

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Participation in Marching Band/Pep Band is highly encouraged; and Fees Apply.

Open to students with no previous instrumental music experience on band instruments. The class focuses on learning to read music notation, understanding fundamental music theory and performance on a band instrument. Most instruments are available with a yearly maintenance fee. Flute, Clarinet, Oboe, Bassoon, Alto Saxophone, French Horn, Trumpet, Trombone, Tuba.

**804 SYMPHONIC BAND**

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Participation in Marching Band/Pep Band is required; Parent Bingo-Fundraising Participation Required and Fees Apply.

Symphonic Band is open to students with at least 1 year on experience on a wind band instrument. The class focuses on further developing music reading, music theory, and performance skills and technique. Students represent Mater Dei at local and national music festivals and concerts. After school and Performances included. If needed, most instruments are available with a yearly maintenance fee. Flute, Clarinet, Oboe, Bassoon, Alto Saxophone, French Horn, Trumpet, Trombone, Tuba.

**802 PERCUSSION**

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Participation in Marching Band/Pep Band and Winter Percussion Ensemble is required; Parent Bingo-Fundraising Participation Required and Fees Apply.

*ALL LEVEL PERCUSSIONISTS must sign-up for this class. Advanced students receive Honors Credit.

The class focuses on developing music reading, music theory and performance, skills and technique. The class is a 4 year program in which students learn to perform on several types of percussion.
Instruments and specialize in one or several.

**Percussion Instruments Include:** Drumline Instruments (snare, quads, basses and cymbals), Mallet instruments (marimba, xylophone, vibraphone, bells), Keyboards (piano), Drums Set, Guitar and Latin Percussion (congas, bongos), Hand Percussion Instruments (triangle, cymbals, cow bell, wind-chimes).

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**854 GUITAR CLASS**

**Course Length:** Year  
**Grade Level:** 9  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Participation in Marching Band is Highly Encouraged; Students must have their own Guitar. Fees Apply.

This class is open to all students with no previous experience required. The course includes music fundamentals, theory, songs, performances, listening, improvising, and learning to read standard music notation as well as tablature. Students will learn open chords, power chords, movable chords, single note (melody) playing, accompaniment techniques, and a variety of playing techniques and styles, including both pick-style and finger-style approaches to the guitar.

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**857 ADVANCED GUITAR - MEDIA PRODUCTION**

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Guitar Class or Audition.

This course is designed to assist students in the advanced concepts of guitar playing while applying those skills to multimedia/performance aspects of the music business. Students will be given direction related to the guitar and learn many different styles of playing from around the world. Special attention will be given to note reading, aural skills, rhythmic patterns, chord study, finger-picking, melody construction, musical forms and performance experience.

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**805 HONORS WIND ENSEMBLE**

**Course Length:** Year  
**Grade Level:** 9-12, by audition only  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Participation in Marching Band/Pep Band is required; Parent Bingo-Fundraising Participation Required and Fees Apply.

Honors Wind Ensemble is open to students with a solid foundation on a wind band instrument and music theory fundamentals. Students are placed by director or by audition. The class focuses on further developing music reading, music theory, and performance skills and technique. After school Rehearsals and Performances are mandatory. Students represent Mater Dei at local and national music festivals and concerts. Most instruments are available with a yearly maintenance fee. Flute, Clarinet, Oboe, Bassoon, Saxophone, French Horn, Trumpet, Euphonium, Trombone, Tuba.

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**810 ORCHESTRA**

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Participation in Marching Band/Pep Band is required; Parent Bingo-Fundraising Participation Required and Fees Apply.

Honors Wind Ensemble is open to students with a solid foundation on a wind band instrument and music theory fundamentals. Students are placed by director or by audition. The class focuses on further developing music reading, music theory, and performance skills and technique. After school Rehearsals and Performances are mandatory. Students represent Mater Dei at local and national music festivals and concerts. Most instruments are available with a yearly maintenance fee. Flute, Clarinet, Oboe, Bassoon, Saxophone, French Horn, Trumpet, Euphonium, Trombone, Tuba.

This class is open to students with at least one year experience on a String Orchestra Instruments: Violin, Viola, Cello and Bass. The class focuses on further developing music reading, music theory, and performance skills and technique. Students represent Mater Dei at local and national music festivals. Afterschool Rehearsals and Performances included. Most instruments are available with a yearly maintenance fee.

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**855 JAZZ BAND**

**Course Length:** Year  
**Grade Level:** 9-12, by audition only  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Participation in Marching Band/Pep Band is required; Parent Bingo-Fundraising Participation Required and Fees Apply.

No previous Jazz experience is required, but the student should be fairly fluent in playing his/her instrument and music theory fundamentals. The class focuses on further developing music reading, music theory, and performance skills and techniques in various jazz eras and styles. Afterschool Rehearsals and Performances are mandatory. Students represent Mater Dei at local and national music festivals; as well as MD and community events.

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**844 HANDBELL ENSEMBLE**

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Approval of the teacher.

The Mater Dei Handbell Ensemble is one of the premier handbell choirs of Southern California. The choir rings sixty different
THEATRE ARTS

811 THEATRE ARTS I

Course Length: Year
Grade Level: 9-12
Prerequisites: None

This is a course for students interested in learning about the various areas of theatre arts, including basic performance training, history and appreciation, and introduction to production elements. Students will learn valuable skills such as focus, discipline, teamwork, self-confidence, critical thinking and giving peer feedback, and presentation and communication skills. This course includes attendance and critiques of all 5 of the school’s productions.

All students will need to purchase class materials including the textbook The Stage and the School, as well as tickets to the required a. Students will be required to participate in actor-training activities and exercises, read the textbook and answer questions, write critiques of plays, and perform improvised work, monologues, and scenes. They are encouraged to always support their peers throughout the creative and learning processes, to create a safe, creative environment and a trusting, supportive class ensemble. Theatre Arts I students are introduced to:

* Improvisation
* Acting
* Types of Drama/Theatre i.e. Musical Theatre, Shakespeare, etc.
* Structure of Drama, story structure
* Various Occupations in Theatre
* Lighting, Costume, Sound, and Set Design
* Students will work on some of the following scripts: A Raisin in the Sun/The Glass Menagerie/Our Town/Antigone
* Play evaluation and critique
* Vocal work (voice and diction), and Physical movement
* Scene Work (Creating characters and text analysis)
* Theatre History

812 THEATRE ARTS II - PLAY PRODUCTION

Course Length: Year
Grade Level: 10-12

807 BAND ASSISTANT

Course Length: Year
Grade Level: 11-12
A-G Designation: None
Prerequisites: Approval of the teacher.

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. This is not a UC or CSU approved course.

Prerequisites: Theatre Arts I grade “C” or above, or equivalent training and experience, and teacher approval.

This course will give the student increased opportunities in the area of scene work and production positions. The student will do advanced work in the areas of stage management, wardrobe, sound, lighting, and acting. Each student is required to participate with active hours both semesters in either the cast or production teams of the plays. In addition, advanced theatre students also work on various competitions, festivals, and special events, including Learning to Lead and the Dr. Seuss Tours. The student must purchase class materials and textbook.

813 THEATRE ARTS III - PLAY PRODUCTION

Course Length: Year
Grade Level: 11-12
Prerequisites: Theater Arts II with a “C” or above, or equivalent training and experience, and teacher approval.

This course provides further opportunities for production leadership. This course focuses on Directing, Design, and Playwriting. The student is required to either head a production team or be in the cast of the school plays, as well as participating and leading competitions and special events, such as Learning to Lead, Dr. Seuss Tour, and Christmas at the Corner. The student must purchase class materials and textbook.

814 HONORS ADVANCED THEATRE IV

Course Length: Year
Grade Level: 11-12
Prerequisites: C or above in Theatre Arts 3, teacher approval, and active participation in Theatre Arts Club.

This honors level course is approved by UC/CSU and meets the standards. Course fulfills the requirements and benchmarks of the National Core Arts Standards. This course has recently been elevated to Honors status because of the rigorous coursework and ample requirements of its students which features vocational training in playwriting, designing, directing and managing/operating positions. Therefore, it is geared towards students interested in pursuing a career in the professional Theatre and/or planning to major/minor in Theatre at the University level.
All students must hold leadership positions, including the possibility of holding the position of student director, on at least one of the five major Theatre productions*, and perform and produce special events such as ShortsFest, Dr. Seuss Tour, and more. There are many performance opportunities (see required list below), theatre related creative projects, collaborative projects, resume writing, written exams, research projects, multimedia presentations, design statements, directing statement papers, student directing of scenes, and period style acting. All students will be involved in discussions and write on artistic topics.

The skills-based content of this production course maintain a context balance of cultural, theoretical and historical, including culturally relevant topics and activities, real-world problems and applications that are appropriate for our school community. This course provides opportunities for self-expression and the creation of individual as well as collaborative projects which engage the students in learning the role that the arts play in their lives.

Required events that extend past the class time:
* = an Advanced Theatre Arts production in which leadership required
All School Play *
Advanced Theatre Arts Play *
Senior Musical
Christmas at the Corner
Project: Discourse events (guest panels, etc.)
All School Musical * Shakespeare in the Grotto * Dr. Seuss Tour
ShortsFest (3 times a year)
Strongly encouraged participation or observation:
Learning to Lead
Organizational Theatre Competitions CAPPIES Club
College Theatre Festivals Scholarship Interviews & Auditions
MDHS Improv Troupe

**MOVEMENT BASED**

**830 DANCE I**

Course Length: Year
Grade Level: 9-12
Prerequisites: 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 dance. Dance I will explore these disciplines: Jazz, Ballet, Musical Theater, Modern, Hip Hop and Choreography. Technique, body awareness, and positive self-image will be emphasized in all disciplines. Class will consist of dance warm-up exercises, conditioning, across the floor combinations, center combinations and will end with a cool down. Elements of dance history, genre, terminology, critical analysis, self-assessment and performance will be covered. This is a performance based class. The students will learn short segments of choreography in each genre over the course of the year that he/she will perform in class at the end of each dance unit. Students will be introduced to basic production methods in preparation for a spring dance recital. Mandatory performance at the recital is required.

**832 DANCE II**

Course Length: Year
Grade Level: 9-12
Prerequisites: Completion of Dance I or instructor’s approval.

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 dance. Dance II will explore these disciplines: Jazz, Ballet, Musical Theater, Modern, Hip Hop and Choreography. Technique, body awareness, and positive self-image will be emphasized in all disciplines. Class will consist of dance warm-up exercises, conditioning, across the floor combinations, center combinations and will end with a cool down. Elements of dance history, genre, terminology, critical analysis, self-assessment and performance will be covered. Students will explore the use of mind and spirit as they relate to movement expression and expand their knowledge and understanding of performance, abstract form, musical components and rhythms. The students will learn short segments of choreography in each genre over the course of the year that he/she will perform in class at the end of each dance unit. Students will be introduced to basic production methods in preparation for a spring dance recital. Mandatory performance at the recital is required.

**831 DANCE III**

Course Length: Year
Grade Level: 9-12
Prerequisites: Completion of Dance II or instructor’s approval.

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 dance. Dance III/IV will explore these disciplines: Jazz, Ballet, Musical Theater, Modern, Hip Hop and Choreography. Technique, body awareness, and positive self-image will be emphasized in all disciplines. Class will consist of dance warm-up exercises, conditioning, across the floor combinations, center combinations, small routines and will end with a cool down. Elements of dance history, genre, terminology, critical analysis, self-assessment, performance, and competitive performance will be covered. Students will explore the use of mind and spirit as they relate to movement expression and expand their knowledge and understanding of performance, abstract form, musical components and competitive dance. A unit on staging and costume for recital and competitive performance will be included. The students will learn short segments of choreography in each genre over the course of the year that he/she will perform in class at the end of each dance unit. Students will be introduced to basic production methods...
in preparation for a spring dance recital. Mandatory performance at the recital is required.

**837 DANCE COMPANY**

Course Length: Year  
Grade Level: 9-12  
A-G Designation: None  
Prerequisites: Audition in Spring, minimum 2.0 GPA, and approval of Instructor.

This advanced course focuses on competitive performance techniques, applies acquired techniques and develops stylistic nuances of each particular dance genre. This is a competitive performance class and is offered during Block 8 and after-school. This is not a UC or CSU approved course.

**836 DANCE PROP PRODUCTION (COLOR GUARD)**

Course Length: Year  
Grade Level: 9-12  
A-G Designation: None  
Prerequisites: Audition and approval of Band Director.

This group combines elements of dance with prop and equipment. Students will perform on flag, rifle, saber, and other equipment. This competitive group meets during 7th block and after school with weekend performances. Members perform at home football games and local tournaments and events with the marching band during 1st semester. Members perform and compete in color guard competitions during 2nd semester. Auditions for fall season take place in the spring; auditions for the spring season take place in December. No previous dance or color guard experience is necessary. Participation fees apply. This course is not a UC or CSU approved course.

**911 PEP SQUAD: CHEER**

Course Length: Year  
Grade Level: 9-12  
A-G Designation: None  
Prerequisites: Audition in Spring, minimum 2.0 GPA, and approval of Instructor.

During this period, the pep squad either practices for games and competitions. NOTE: This class meets during block 7 and after school. This is not a UC or CSU approved course.

**972 SONG LEADERS**

Course Length: Year  
Grade Level: 9-12  
A-G Designation: None  
Prerequisites: Audition in Spring, minimum 2.0 GPA, and approval of Instructor.

During this period, the pep squad either practices for games and competitions. NOTE: This class meets during block 7 and after school. This is not a UC or CSU approved course.

**840 WOMEN’S ENSEMBLE**

Course Length: Year  
Grade Level: 9-12, female students  
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 $400.00 choral fee to help with the purchase of new music, costuming, and transportation needs.

**841 MEN’S ENSEMBLE**

Course Length: Year  
Grade Level: 9-12, male students  
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 $400.00 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.

**848 HONORS CHAMBER SINGERS**

Course Length: Year  
Grade Level: 9-12, by audition only  
Prerequisites: Cumulative GPA of 3.0, approval of course instructor, one year in a Mater Dei performance ensemble. Auditions are held in May prior to the new school year.

Auditions are held in three parts: A vocal audition in front of a panel of judges, students must pass an Aural Aptitude exam, 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 $450.00 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.

**843 ADVANCED WOMEN’S ENSEMBLE**

**Course Length:** Year  
**Grade Level:** 9-12, by audition only  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Vocal audition required. Freshmen women by recommendation of previous instructor and audition. Auditions are held in May prior to the new school year.

Auditions are held in three parts: A vocal audition in front of a panel of judges, students must pass an Aural Aptitude exam, students must then pass sight-reading exam.

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 $450.00 choral fee to help cover the costs of new music, costuming, and some transportation.

**851 CONCERT CHOIR**

**Course Length:** Year  
**Grade Level:** 9-12, by audition only  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Vocal audition required. Freshmen women by recommendation of previous instructor and choir director accompanied with audition. Audition required for all grades.

Auditions are held in three parts: A vocal audition in front of a panel of judges, students must pass an Aural Aptitude exam, students must then pass sight-reading exam.

Concert Choir is an intermediate level performance course designed to enhance music reading and literacy with a strong emphasis on vocal development and performance. The Concert Choir performs in no less than 5 formal concerts each year, 3 major festivals and tours frequently both domestically and abroad performing in some of the world’s most beautiful venues. There is a choir fee of $425 to help cover the costs of transportation, costuming, music and events. Numerous fundraising opportunities administered through our healthy booster club are available to assist in defraying costs.

**852 INTERMEDIATE WOMEN’S CHOIR**

**Course Length:** Year  
**Grade Level:** 9-12, by audition only  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Incoming freshman must have recommendation from voice teacher or choir director accompanied with audition. Audition required for all grades.

Auditions are held in three parts: A vocal audition in front of a panel of judges, students must pass an Aural Aptitude exam, students must then pass sight-reading exam.

Intermediate Women’s Choir is an intermediate level performance course designed to enhance music reading and literacy with a strong emphasis on vocal development and performance. The Intermediate Women’s Choir performs in no less than 4 formal concerts each year, major festivals, and tours frequently both domestically and abroad performing in some of the world’s most beautiful venues. There is a choir fee of $425 to help cover the costs of transportation, costuming, music and events. Numerous fundraising opportunities administered through our healthy booster club are available to assist in defraying costs.

**839 ESSENTIALS OF MUSIC**

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Enrollment in a music ensemble or permission of instructor.

Open to all students. Essentials of Music is a one-year intermediate-level academic elective course designed to enhance music reading and literacy. This course provides students with a broad knowledge of music by analyzing musical elements, practicing them in a variety of contexts, and investigating the compositional components of music. Students will develop music literacy skills, explore basic harmonies, and identify musical elements and genres through listening. They will identify and apply factors that inform music interpretation, investigate the relationship of the musical periods, and analyze the use of form in a varied repertoire of music representing diverse genres, styles, and cultures. This course acts as the prerequisite for AP Music Theory.

**838 VOCAL WORKSHOP: MUSICAL THEATRE**

**Course Length:** Year  
**Grade Level:** 11-12  
**A-G Designation:** “F” – Visual & Performing Arts  
**Prerequisites:** Current enrollment in a choral ensemble and voice lessons.

Vocal Workshop: Musical Theatre is a one-year advanced-level academic elective course open to Juniors and Seniors with an
interest in refining their vocal performance. Students will spend one semester learning a variety of vocal repertoire such as Italian and English Art Song, Musical Theatre, and Opera, as well as practicing skills necessary for collegiate and professional auditions. In the second semester, students will stage and perform a Musical Theatre revue or small-cast musical. They will demonstrate critical thinking by applying their knowledge of characterization, healthy vocalism, and style to convey meaning and emotion. Students will enhance their communication and leadership skills by collaborating with others in selecting and staging repertoire to produce and perform their own show.

846 AP MUSIC THEORY

Course Length: Year
Grade Level: 11-12
Prerequisites: A Grade of B or higher in Essentials of Music and all Performing Arts Classes; participation in a performing ensemble

This is an advanced level course designed to engage students in learning activities that will help them to achieve the outcomes assessed by the College Board’s Advanced Placement Music Theory Examination. The AP Music Theory course is designed to develop a student’s ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. These abilities will be developed through various listening, performance, written, creative, and analytical exercises. Although this course focuses on music of the Common Practice Period (1600 – 1900), materials and processes found in other styles and genres are also studied. Students are encouraged to sit for the College Board’s Advanced Placement Music Theory Examination. Students who successfully complete the AP Music Theory Examination and plan to major in music in college may be able to enroll in an advanced music theory course, depending upon the individual college’s policy. An AP Test Fee applies.

847 CHORAL ASSISTANT

Course Length: Year
Grade Level: 11-12
A-G Designation: None
Prerequisites: Approval of Instructor

Students assist the Choir Director and Choir Staff. Credit only. This is not a UC or CSU approved course.
UC/CSU - “F” VISUAL/PERFORMING ARTS REQUIREMENT:
1 yearlong course or 2 semester courses from the same discipline required. One year chosen from the following disciplines: dance, music, theater, visual arts or interdisciplinary arts. A single course taken over two academic years is acceptable.

SAMPLE VISUAL ARTS PATHWAYS

<table>
<thead>
<tr>
<th>Courses Offered</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art I</td>
<td>Design I/II</td>
<td>Art II</td>
<td>AP Art History</td>
<td>Art IV</td>
</tr>
<tr>
<td>Digital Photo I</td>
<td>Contemporary Media</td>
<td>Digital Photo 2</td>
<td>AP Studio Art: Drawing</td>
<td>AP Studio Art: 2-D Design</td>
</tr>
<tr>
<td>Ceramics I</td>
<td>Ceramics II</td>
<td>Contemporary Media II</td>
<td>AP Studio Art: 3-D Design</td>
<td>Visual Arts Aide</td>
</tr>
</tbody>
</table>

*All visual arts courses are both UC and CSU approved courses unless otherwise indicated.

817  ADVANCED PLACEMENT ART HISTORY

Course Length: Year
Grade Level: 11-12
Prerequisites: Cumulative G.P.A. of 3.3. First Semester English grade of “A”.

The AP Art History course explores such topics as the nature of art, its uses, its meanings, art making, and responses to art. Through investigation of diverse artistic traditions of cultures from prehistory to the present, the course fosters in-depth and holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of forms, constructing understanding of individual works and interconnections of art-making processes and products throughout history. Fee charged for AP Test Exam. All students are required to take the AP Exam.

820  ART I

Course Length: Year
Grade Level: 9-12
Prerequisites: None

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 of all skill levels. Media used include pencil, ink, charcoal, oil pastels, colored pencils, acrylic paint and watercolors. Materials and tools fee charged for this course.

822  ART II

Course Length: Year
Grade Level: 10-12
Prerequisites: A grade of “B” or better in Art I and approval of Art I teacher

Students will further explore their understanding of the elements and principles of art. The curriculum will include advanced media exploration, creative expression and problem solving. Materials and tools fee charged for this course.

823  ART III

Course Length: Year
Grade Level: 11-12
Prerequisites: A grade of “B” or better in Art I and approval of Art I teacher

Students will further explore their understanding of the elements and principles of art. The curriculum will include advanced media exploration, creative expression and problem solving. Materials and tools fee charged for this course.

824  ART IV

Course Length: Year
Grade Level: 12
Prerequisites: A grade of “B” or better in Art III and approval of your Art III teacher.

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, which includes critical thinking, self-portraits, observation projects, collages, and the use of technology. Materials and tools fee charged for this course.

819 ADVANCED PLACEMENT STUDIO ART: DRAWING PORTFOLIO

Course Length: Year
Grade Level: 12
Prerequisites: A grade of “A” in Art II or Art III.
Recommendation from current Visual Arts instructor. Portfolio review by AP Studio instructor.

Materials and tools fee charged for this class. AP test fee.

This advanced art course will develop individual skills to meet Advanced Placement Portfolio requirements. For the Drawing Portfolio, students will explore advanced drawing and painting techniques, submitting art, images and writing to document their inquiry-guided investigation through practice, experimentation and revision. The portfolio is divided into the following categories that the student must complete before the exam.

SUSTAINED INVESTIGATION: (60% of exam score) A minimum of 15 digital images that include works of art, design and process. Typed responses to prompts, providing information about the questions that guided their investigation and how they practiced, experiments and revised their work accordingly.

SELECTED WORKS: (40% of exam score) Students will select five physical works that best demonstrate their highest level of accomplishment in drawing and painting in relation to their inquiry-guided investigation along with written responses on paper detailing the materials, processes and ideas used.

828 DESIGN I/II

Course Length: Year
Grade Level: 9-12
Prerequisites: None

This course is a class in the basic elements and principles of design as they are applied to graphic design and digital 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 while providing training in the use of the computer programs Adobe Photoshop and Illustrator. Materials and tools fee charged for this course.

827 CONTEMPORARY MEDIA

Course Length: Year
Grade Level: 10-12
Prerequisites: A grade of “B” or better in Art I or Design.
Recommendation from current Visual Arts instructor.

This is an advanced course in digital art and 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 text and computer graphics into design, edit and manipulate photography and draw and paint digitally. Students will gain understanding of artists and art styles that have impacted commercial and fine art. This course provides continued training in the computer programs Adobe Photoshop and Illustrator. Materials and tools fee charged for this course.

815 CONTEMPORARY MEDIA II

Course Length: Year
Grade Level: 11-12
Prerequisites: A grade of “B” or better in Contemporary Media.
Recommendation from current Visual Arts instructor.

This is an advanced course in digital art and graphic design. Students will continue to learn to apply the elements and principles of art in two-dimensional computer-generated imagery. Students will learn to integrate and organize text and computer graphics into design, edit and manipulate photography and draw and paint digitally. Students will gain understanding of artists and art styles that have impacted commercial and fine art. This course provides continued training in the computer programs Adobe Photoshop and Illustrator. Materials and tools fee charged for this course.

829 DIGITAL PHOTOGRAPHY

Course Length: Year
Grade Level: 9-12
Prerequisites: None

This course is a class in the basic elements and principles of art as they are applied to digital photography. Students will learn the basic concepts of taking photographs and how to use a digital camera. The course includes an introduction to the history of photography and to noted photographers of the 19th century up to present day. Students will learn photography terms and techniques, how to print and mat work, and apply critical thinking and problem-solving skills. Students will also be introduced to digital imagery manipulation through the use of Adobe Photoshop. Materials and tools fee charged for this course.
808  CERAMICS I

Course Length: Year
Grade Level: 9-12
Prerequisites: None

This college preparatory course is an introduction to ceramics that will cover basic hand building techniques; coil, pinch, slab, relief and subtractive sculpture 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 also focus on Ceramics as a form of expression that can be both utilitarian and sculptural. In addition, the curriculum will include aesthetic perception through the design, creation and written evaluation of projects created. Students will research various cultures and the pottery created by them, as well as contemporary ceramic artists and evaluate the aesthetics of their work. Students will research, using in class materials, the school library and the internet to broaden their knowledge about each assignment. The iPad will be used to photograph and self-assess each assignment with regards to design, execution, construction, and aesthetics. Each student is required to submit their best work to the all school art show in the spring. Materials and tools fee charged for this course.

809  CERAMICS II

Course Length: Year
Grade Level: 10-12
Prerequisites: A grade of “B” or better in Ceramics I. Approval of the Ceramics I Instructor.

This year long advanced course includes further exploration of hand building and finishing techniques to solve complex three-dimensional problems. Problems will require both sculptural and utilitarian solutions, but the focus will be more on Ceramics as a sculptural mode of expression, with regard to interpreting three-dimensional spaces and sculpture as social commentary. Students will be required to write about their intent and well as their experience with regards to the outcome of finished work. Students will be required to research contemporary ceramic artists and to visit local art galleries that showcase three-dimensional art and share their experience with the class. Each student is required to submit one or more of their best work from the year to the all school art show in the spring. Materials and tools fee charged for this course.

833  DIGITAL PHOTOGRAPHY 2

Course Length: Year
Grade Level: 10-12
Prerequisites: Grade of “B” or better in Digital Photography. Recommendation of Digital Photography instructor.

This is an advanced class in digital photography. Students will continue to study the elements and principles of art, refine and explore photographic techniques and develop skill in photo editing software to improve the appearance of their images. Materials and tools fee charged for this course.

860  CERAMICS III

Course Length: Year
Grade Level: 11-12
Prerequisites: A grade of “A” or better in Ceramics II. Approval of the Ceramics II Instructor.

This course is designed to teach students both the theory and applications of Ceramics at a more advanced level than Ceramics II. Students will research, design and submit written evaluations of their process, and execution for each project. It is expected that each advanced student continue to visit local art galleries that showcase three-dimensional art and share their experience with the class. Juniors in Ceramics III who plan on taking AP Studio Art 3D Design are creating a body of work aimed at fulfilling the breadth section of that portfolio. Materials and tools fee charged for this course.

862  ADVANCED PLACEMENT STUDIO ART: 2-D DESIGN PORTFOLIO

Course Length: Year
Grade Level: 12
Prerequisites: A grade of “A” in Contemporary Media I/II or Digital Photography II. Recommendation from current Visual Arts instructor. Portfolio review by AP Studio instructor.

Materials and tools fee charged for this class. AP test fee.
This advanced art course will develop individual skills to meet Advanced Placement Portfolio requirements. For the 2-D portfolio, students will explore advanced techniques in graphic design, photography and/or digital art submitting art, images and writing to document their inquiry-guided investigation through practice, experimentation and revision. The portfolio is divided into the following categories that the student must complete before the exam.

SUSTAINED INVESTIGATION: (60% of exam score) A minimum of 15 digital images that include works of art, design and process. Typed responses to prompts, providing information about the questions that guided their investigation and how they practiced, experiments and revised their work accordingly.

SELECTED WORKS: (40% of exam score) Students will select five physical works that best demonstrate their highest level of accomplishment in drawing and painting in relation to their inquiry-guided investigation along with written responses on paper detailing the materials, processes and ideas used.

MATER DEI HIGH SCHOOL COURSE CATALOG 2018-2019  BACK TO TABLE OF CONTENTS  45
821 ADVANCED PLACEMENT STUDIO ART: 3-D DESIGN PORTFOLIO

Course Length: Year
Grade Level: 12
Prerequisites: A grade of “A” in Ceramics I, II or III.
Recommendation from current Visual Arts instructor. Portfolio review by AP Studio instructor.

Materials and tools fee charged for this class. AP test fee.
This advanced art course will develop individual skills to meet Advanced Placement Portfolio requirements. 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, submitting art, images and writing to document their inquiry-guided investigation through practice, experimentation and revision.
The portfolio is divided into the following categories that the student must complete before the exam.

SUSTAINED INVESTIGATION: (60% of exam score) A minimum of 15 digital images that include works of art, design and process. Typed responses to prompts, providing information about the questions that guided their investigation and how they practiced, experiments and revised their work accordingly.

SELECTED WORKS: (40% of exam score) Students will select five physical works that best demonstrate their highest level of accomplishment in drawing and painting in relation to their inquiry-guided investigation along with written responses on paper detailing the materials, processes and ideas used.

863 ANIMATION

Course Length: Year
Grade Level: 10-12
Prerequisites: A grade of “B” or better in either Art I or Design and recommendation from your Visual Arts instructor.

This class is designed to introduce students to the history, skills and techniques of traditional animation. Emphasis will be placed on the elements and principle of art, design and communication and how these fundamentals connect with the narrative art of animation. Topics of the class will also include gesture drawing, character design, storyboarding and the use of technology in art production. Materials and tools fee charged for this course.

816 VISUAL ARTS AIDE

Course Length: Year
Grade Level: 12
A-G Designation: None
Prerequisites: A grade of “B” or better in previous Visual Arts courses. Approval of Visual Arts Instructor or Visual Arts Department Chair

This course is open to students who will be taking an AP Studio Art class, and/or are interested in pursuing Art Education as a career. Students assist the Visual Arts Instructor. This course is for credit only, no letter grade is given. This is not a UC or CSU approved course.
The athletics courses are not UC or CSU approved courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Course Length</th>
<th>Grade Level</th>
<th>A-G Designation</th>
<th>Prerequisite</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>912</td>
<td>ATHLETIC TRAINING</td>
<td>Year</td>
<td>10-12</td>
<td>None</td>
<td>Approval of Athletic Trainer</td>
<td>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. <strong>NOTE:</strong> This class meets during last period only, and it requires after school and weekend work to cover games and practices. This course is for credit only, no letter grade is given.</td>
</tr>
<tr>
<td>924</td>
<td>BASEBALL</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
</tr>
<tr>
<td>914</td>
<td>BASKETBALL (GIRLS’)</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
</tr>
<tr>
<td>985</td>
<td>SENIOR GIRLS’ BASKETBALL</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
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<tr>
<td>923</td>
<td>BASKETBALL (BOYS’)</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
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<tr>
<td>984</td>
<td>SENIOR BASKETBALL (BOYS’)</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
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<tr>
<td>931</td>
<td>BOYS’ BASKETBALL ASSISTANT</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Student is required to attend all practices and games. Student will travel with the Basketball team. <strong>This course is for credit only, no letter grade is given.</strong></td>
</tr>
<tr>
<td>1002</td>
<td>CROSS COUNTRY AND TRACK</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
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<tr>
<td>919</td>
<td>FOOTBALL</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
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<tr>
<td>927</td>
<td>SENIOR FOOTBALL</td>
<td>Year</td>
<td>12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
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<td>978</td>
<td>GOLF (GIRLS’)</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
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<tr>
<td>977</td>
<td>GOLF (BOYS’)</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
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<tr>
<td>979</td>
<td>LACROSSE (BOYS’)</td>
<td>Year</td>
<td>9-12</td>
<td>None</td>
<td>Approval of Head Coach</td>
<td>Course for invited student athletes in the respective program</td>
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</table>
**1006 LACROSSE (GIRLS')**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**918 SOCCER (GIRLS')**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**913 SOCCER (BOYS')**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**916 SOFTBALL**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**986 TENNIS (GIRLS')**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**987 TENNIS (BOYS')**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**973 VOLLEYBALL (GIRLS')**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**974 WATER POLO (BOYS')**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**975 WATER POLO (GIRLS')**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**976 VOLLEYBALL (BOYS')**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**981 SENIOR GIRLS’ WATER POLO**
Course Length: Year
Grade Level: 12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for senior students on the JV and Varsity teams.

**974 WATER POLO (BOYS')**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**982 SENIOR BOYS’ WATER POLO**
Course Length: Year
Grade Level: 12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**917 WRESTLING**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**1060 SWIMMING**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program

**1052 SURF (COED)**
Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisite: Approval of Head Coach
Course for invited student athletes in the respective program
LEADERSHIP STUDIES

1012 LEADERSHIP STUDIES – SERVANT LEADERSHIP

Course Length: Year
Grade Level: 9-12
A-G Designation: “G” – College-preparatory Elective
Prerequisite: Approval of Activities Director.

This year-long, project based course will introduce students to servant leadership. Students will learn about the importance of serving others, their school, their community, and their world. Servant leadership is a philosophy and set of practices that enriches the lives of individuals, builds better organizations, and ultimately creates a more just and caring world. The curriculum integrates Robert Greenleaf’s core ideas about Servant Leadership, with the latest and best thinking of top researchers, thought-leaders, and accomplished leadership practitioners. This course is a UC and CSU approved course.

FILM AND MEDIA ARTS

1070 INTRODUCTION TO PUBLICATION DESIGN

Course Length: Year
Grade Level: 9-12
A-G Designation: “G” - College-Preparatory Elective
Prerequisites: A grade of “B” or better in English

Introduction to publication design is a year-long course in which students will learn how to tell stories through writing, photography, broadcast, design and social media. This course will provide a foundation in multimedia journalism as a means of training students to work for one of Mater Dei’s student media staffs, including The Scarlet Scroll newspaper and the CROWN yearbook, as well as Monarch Television. Students will learn how to research, how to use production software and equipment like Adobe InDesign and digital cameras, and how to capture the stories of the Mater Dei and Orange County communities through various platforms.

1071 NEWSPAPER I: MEDIA PRODUCTION

Course Length: Year
Grade Level: 10-12
Prerequisites: A grade of “B” or better in English. Completion of application and approval of newspaper adviser. Completion of Introduction to Publication Design or exemption that is approved by newspaper adviser.

This course is a year-long multimedia production course devoted to the publication of the student newspaper, The Scarlet Scroll. Students will gain experience in writing, photography, broadcast, graphic design and layout design by covering school-related news, feature stories, social issues, art reviews and sporting events that take place on and off campus and within the Mater Dei and Orange County communities. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

1072 NEWSPAPER II: MEDIA PRODUCTION

Course Length: Year
Grade Level: 10-12
Prerequisites: A grade of “B” or better in English. Completion of application and approval of newspaper adviser. Completion of Introduction to Publication Design or exemption that is approved by newspaper adviser.

This course is a year-long multimedia production course devoted to the publication of the student newspaper, The Scarlet Scroll. Students will gain experience in writing, photography, broadcast, graphic design and layout design by covering school-related news, feature stories, social issues, art reviews and sporting events that take place on and off campus and within the Mater Dei and Orange County communities. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

1073 NEWSPAPER III: MEDIA PRODUCTION

Course Length: Year
Grade Level: 11-12
Prerequisites: A grade of “B” or better in English. Completion of application and approval of newspaper adviser. Completion of Introduction to Publication Design or exemption that is approved by newspaper adviser.

This course is a year-long multimedia production course devoted to the publication of the student newspaper, The Scarlet Scroll. Students will gain experience in writing, photography, broadcast, graphic design and layout design by covering school-related news, feature stories, social issues, art reviews and sporting events that take place on and off campus and within the Mater Dei and Orange County communities. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.
Students will gain experience in writing, photography, broadcast, graphic design and layout design by covering school-related news, feature stories, social issues, art reviews and sporting events that take place on and off campus and within the Mater Dei and Orange County communities. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

1082 NEWSPAPER IV: MEDIA PRODUCTION

Course Length: Year  
Grade Level: 11-12  
Prerequisites: A grade of “B” or better in English. Completion of application and approval of newspaper adviser. Completion of Introduction to Publication Design or exemption that is approved by newspaper adviser.

This course is a year-long multimedia production course devoted to the publication of the student newspaper, The Scarlet Scroll. Students will gain experience in writing, photography, broadcast, graphic design and layout design by covering school-related news, feature stories, social issues, art reviews and sporting events that take place on and off campus and within the Mater Dei and Orange County communities. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

1074 NEWSPAPER II HONORS: ADVANCED MEDIA LEADERSHIP

Course Length: Year  
Grade Level: 10-12  
Prerequisites: A grade of “B” or better in English. Completion of application, interview and approval of newspaper adviser. Completion of Introduction to Publication Design and Newspaper I.

Students in this course may apply for editor positions on the staff of the student newspaper, The Scarlet Scroll. While continuing their work as reporters for the student newspaper, editors will also serve as the leaders and managers of the staff by planning and editing content, overseeing the staff, teaching new skills, and organizing events and new projects. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

1076 YEARBOOK I: MEDIA PRODUCTION

Course Length: Year  
Grade Level: 10-12  
Prerequisites: A grade of “B” or better in English. Completion of application approval of yearbook adviser. Completion of Introduction to Publication Design or exemption that is approved by newspaper adviser.

This course is a year-long multimedia production course devoted to the publication of the student yearbook, the CROWN. Students will gain experience in writing, photography, graphic design and layout design by covering the stories of the school year that take place on and off campus and within the Mater Dei and Orange County communities. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

1077 YEARBOOK II: MEDIA PRODUCTION

Course Length: Year  
Grade Level: 10-12  
Prerequisites: A grade of “B” or better in English. Completion of application approval of yearbook adviser. Completion of Introduction to Publication Design or exemption that is approved by newspaper adviser.

This course is a year-long multimedia production course devoted to the publication of the student yearbook, the CROWN. Students will gain experience in writing, photography, graphic design and layout design by covering the stories of the school year that take place on and off campus and within the Mater Dei and Orange County communities. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.
This course is a year-long multimedia production course devoted to the publication of the student yearbook, the CROWN. Students will gain experience in writing, photography, graphic design and layout design by covering the stories of the school year that take place on and off campus and within the Mater Dei and Orange County communities. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

1078 YEARBOOK III: MEDIA PRODUCTION

Course Length: Year
Grade Level: 11-12
Prerequisites: A grade of “B” or better in English. Completion of application approval of yearbook adviser. Completion of Introduction to Publication Design or exemption that is approved by newspaper adviser.

This course is a year-long multimedia production course devoted to the publication of the student yearbook, the CROWN. Students will gain experience in writing, photography, graphic design and layout design by covering the stories of the school year that take place on and off campus and within the Mater Dei and Orange County communities. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

949 YEARBOOK IV: MEDIA PRODUCTION

Course Length: Year
Grade Level: 11-12
Prerequisites: A grade of “B” or better in English. Completion of application approval of yearbook adviser. Completion of Introduction to Publication Design or exemption that is approved by newspaper adviser.

This course is a year-long multimedia production course devoted to the publication of the student yearbook, the CROWN. Students will gain experience in writing, photography, graphic design and layout design by covering the stories of the school year that take place on and off campus and within the Mater Dei and Orange County communities. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

1079 YEARBOOK II HONORS: ADVANCED MEDIA LEADERSHIP

Course Length: Year
Grade Level: 10-12
Prerequisites: A grade of “B” or better in English. Completion of application, interview and approval of yearbook adviser.

Completion of Introduction to Publication Design and Yearbook I.

Students in this course may apply for editor positions on the staff of the student yearbook, the CROWN. While continuing their work as content creators for the yearbook, editors will also serve as the leaders and managers of the staff by planning and editing content, overseeing the staff, teaching new skills, and organizing events and new projects. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

1080 YEARBOOK III HONORS: ADVANCED MEDIA LEADERSHIP

Course Length: Year
Grade Level: 11-12
Prerequisites: A grade of “B” or better in English. Completion of application, interview and approval of yearbook adviser. Completion of Introduction to Publication Design and Yearbook II.

Students in this course may apply for editor positions on the staff of the student yearbook, the CROWN. While continuing their work as content creators for the yearbook, editors will also serve as the leaders and managers of the staff by planning and editing content, overseeing the staff, teaching new skills, and organizing events and new projects. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

949H YEARBOOK IV HONORS: ADVANCED MEDIA LEADERSHIP

Course Length: Year
Grade Level: 11-12
Prerequisites: A grade of “B” or better in English. Completion of application, interview and approval of yearbook adviser. Completion of Introduction to Publication Design and Yearbook III.

Students in this course may apply for editor positions on the staff of the student yearbook, the CROWN. While continuing their work as content creators for the yearbook, editors will also serve as the leaders and managers of the staff by planning and editing content, overseeing the staff, teaching new skills, and organizing events and new projects. This course is both a class and an extracurricular activity. This course has a $25 course materials fee.

1020 FILM AS LITERATURE I

Course Length: Semester
Grade Level: 10-12
A-G Designation: “G” - College-Preparatory Elective
Prerequisites: None

Students approach film similarly to the way novels are studied. Students view (not watch), discuss, and write about films in a literary fashion. Class members view clips from various films as well as view several films in their entirety. Students are taught to “read” films with an eye toward symbolism, themes, social and historical context, bias, points of view, plot development, and character development. All students keep a film journal in which they will take notes and write comprehensive literary analyses of the films and clips seen throughout the semester. There are in-class exams as well as analytical writing assignments throughout the semester. If you enroll in Film as Literature I in the fall you will automatically be enrolled in the spring Film as Literature II course.

1022 FILM AS LITERATURE II

Course Length: Semester
Grade Level: 10-12
A-G Designation: “G” - College-Preparatory Elective
Prerequisite: C or higher in Film as Literature I

Expands on the themes and skills learned in Film as Literature I. We study, in depth, various film styles, genres, and theories focusing on the evolution of storytelling in film, artistic intent, the use of film as political propaganda, and satire. This course is for students serious about film studies. Students keep a film journal and write in-class analytical essays after each unit.

1044 INTRO TO MEDIA PRODUCTION

Course Length: Year
Grade Level: 9-12
A-G Designation: “F” - Visual & Performing Arts
Prerequisites: None

This course will introduce students to the fundamentals of video and multimedia production. Students will learn the aesthetics of shooting, audio, lighting, editing, and media delivery. The course emphasizes a hands-on production experience using a variety of media creation equipment including iPads, DSLR cameras and studio production equipment.

1045 REALITY MEDIA PRODUCTION

Course Length: Year
Grade Level: 9-12
A-G Designation: “F” - Visual & Performing Arts
Prerequisites: None

This course emphasizes live productions such as events, interviews and campus happenings, and synthesizes them with nonfiction multimedia storytelling. The course also serves as a historical survey of nonfiction storytelling as applied to a variety of media. Furthermore, the class teaches online safety and responsibility as well as the basics of copyright law and proper use of media. The projects created in this class are integrated into the Scarlet Scroll online newspaper, the CROWN Yearbook, the daily MDTV broadcast, and the MDHS YouTube channel. Materials fee is charged for this course.

1046 FILMMAKING I

Course Length: Year
Grade Level: 9-12
A-G Designation: “F” - Visual & Performing Arts
Prerequisite: None

The course is primarily a production course using class members as the production unit with a focus on short fiction filmmaking, including story; development, production techniques and the art of post-production. Students will learn and participate in a variety of roles in the creation process including those of director, producer, editor and production assistant. This course will also introduce students to various perspectives on the study and production of film and media theory and production. Students will gain an historical understanding of media as well as its application. Materials fee is charged for this course. This course is a UC and CSU approved course.

1056 FILMMAKING II

Course Length: Year
Grade Level: 9-12
A-G Designation: “F” - Visual & Performing Arts - Pending
Prerequisite: None

Filmmaking II picks up directly where Filmmaking I leaves off and expands on the previous curriculum while introducing more advanced techniques. Students study the historical development of the motion picture industry on a global level as well as the contributions of specific artists from visual and performing arts who have shaped the look of film today. Students study narrative storytelling and apply that knowledge to scriptwriting. Cinematography and editing principles and concepts will be applied so students have a clear understanding of what it takes to work as a professional in the film industry. Finally, students explore the opportunities for career paths in film and related industries. Materials fee is charged for this course. This course is a UC and CSU approved course.

1047 SCREENWRITING

Course Length: Year
Grade Level: 9-12
A-G Designation: “B” – English
Prerequisite: None

This course develops the skills and techniques necessary for the writing of film, video, broadcast and mixed media. The Screenwriting I emphasizes short pieces and exercises for dramatic, informational, documentary, commercial, and public

MATER DEI HIGH SCHOOL COURSE CATALOG 2018-2019
service announcements. The course also serves as an introduction to the industry specific formats required for each style of writing.

1048 ADVANCED EVENT MANAGEMENT AND STAGE CRAFT

Course Length: Year
Grade Level: 9-12
A-G Designation: “F” - Visual & Performing Arts
Prerequisite: Completion of any media production class OR Theatre I OR approval of Film & Media Arts Department Chair

This could be the most important course you take if you are interested in a career in film, media or theater working behind the scenes. You will learn and experience the details of pre-planning and preparing a show, as well as organizing and running a complete show/event. You will take on different roles of an event/stage production team, work directly with program and department directors and performers, and assist in the production of event from rallies, to masses, and other performances throughout the school. Materials fee is charged for this course.

1054 ADVANCED EVENT & STAGE MANAGEMENT AND STAGECRAFT II

Course Length: Year
Grade Level: 11-12
A-G Designation: “F” - Visual & Performing Arts
Prerequisite: Completion of Advanced Event Management and Stagecraft

This course resumes where Advanced Event Management and Stagecraft leaves off, with students having a firm understanding of what it means to design, implement and produce a show/event at an extremely high level. Students will already be able to demonstrate their master of the fundamental principles of technical production work. Students will continue to pursue areas of expertise and take on additional leadership roles in this course. This course has a $75 course materials fee.

1040 STUDIO PRODUCTION

Course Length: Year
Grade Level: 9-12
A-G Designation: “F” - Visual & Performing Arts
Prerequisite: None

Students will learn the fundamentals of television production including: camera operation, gripping, stage management, lighting, audio, basic scriptwriting, basic editing, in addition to the basic technical aspects of studio production. Students will contribute to the Monarch TV morning show. In this course, students may have the opportunity to participate in some extracurricular events requiring production throughout the semester. Materials fee is charged for this course.

1042 ADVANCED STUDIO AND MEDIA PRODUCTION I

Course Length: Year
Grade Level: 9-12
A-G Designation: “F” - Visual & Performing Arts
Prerequisite: C or higher in Studio Production I

This advanced course will allow students to learn more advanced techniques of television production including: directing, producing, advanced camera operation, acting for television, studio and remote shoot management, advanced scriptwriting, advanced editing, creativity in audio and lighting, graphics and technical engineering. Students will be required to work in a variety of crew roles to gain experience. Advanced crew positions require leadership skills and carry heavy responsibility. Because assignments require heavy extracurricular participation, This class will be invaluable portfolio building for those students who plan to major in communication and pursue careers in television, radio, and multimedia. Materials fee is charged for this course.

1043 ADVANCED STUDIO AND MEDIA PRODUCTION II

Course Length: Year
Grade Level: 10-12
A-G Designation: “F” - Visual & Performing Arts Prerequisite: C or higher in Advanced Studio and Media Production I.

This advanced course will allow students to learn more advanced techniques of television production including: directing, producing, acting for television, advanced camera operation, studio and remote shoot management, advanced scriptwriting, advanced editing, creativity in audio and lighting, graphics and technical engineering. Students will be required to work in a variety of crew roles to gain experience. This course allows students to have an emphasized role such as producer, director, writer or on-air talent. Students will participate in televised school events, and Monarch TV morning news. Advanced crew positions require leadership skills and carry heavy responsibility. Because assignments require heavy extracurricular participation. This class will be invaluable portfolio building for those students who plan to major in communication and pursue careers in television, radio, and multimedia. Materials fee is charged for this course.

1049 ACTING FOR TELEVISION

Course Length: Year
Grade Level: 9-12
A-G Designation: “F” - Visual & Performing Arts

This class will be invaluable portfolio building for those students who plan to major in communication and pursue careers in television, radio, and multimedia. Materials fee is charged for this course.
**Prerequisite:** C or Higher in Intro to Media Production or Theatre Arts I and approval from Director of either the Performing Arts or the Film and Media Arts Department.

The course is geared toward students who are serious about acting and learning the necessary skills to build a professional portfolio geared toward the entertainment industry. Students will have the opportunity to develop projects from script to screen on the daily Monarch TV morning show. Students will additionally learn the technical nuances to producing the daily morning show in order to further their understanding of the entire process. **Materials fee is charged for this course.**

### 1057 ACTING FOR TELEVISION II

**Course Length:** Year  
**Grade Level:** 10-12  
**A-G Designation:** “F” - Visual & Performing Arts  
**Prerequisite:** C or Higher in Acting for Television

Acting for Television II expands upon the knowledge gleamed from the first year class and is designed to continue the students’ knowledge of and comfort in front of the camera. This will include new opportunities for creativity and leadership as they will be responsible for the broadcast of the daily morning show.

### 1055 SPORTS BROADCASTING

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** “G” - College-Preparatory Elective  
**Prerequisite:** This class is an intermediate to advanced production class and requires a passing grade in a previous video/media/film production course or instructor approval

This class is an opportunity for students to hone their video production skills while producing broadcast quality publishable content. Specifically, students will learn to produce sports programs — live sporting events and sports programs — which will potentially air on the school’s website, morning show, and will stream live on the Internet. **This course does require extracurricular participation. This course has a required materials fee.**

### CENTER FOR LEARNING

### 1025 MAPS - MONARCH ACADEMIC PROGRAM FOR SUCCESS

**Course Length:** Year  
**Grade Level:** 9-12  
**A-G Designation:** None  
**Prerequisites:** Approval of Executive Director of Learning Services

This is a graded course designed to focus not only on what to learn, but how to learn. Each student is placed with a mentor learning specialist to improve study skills, time management, student-driven action plans, self-advocacy, and use of technology, with a 1:8 teacher-student ratio per class. Services for students enrolled in this course also include: Incoming 9th grade transition team meeting with student’s 8th grade team; Individualized Learning Plans (ILP’s) outlining academic needs and accommodations; extra test time (up to 50%) in a reduced-distraction setting (MAPS Testing Center); access to over 80,000 VOICE text books (including textbooks); oral testing, note takers, hard copy textbooks, and preferential classroom seating; additional academic support before and after school in the Center for Learning; universal extended time on final exams in the MAPS Testing Center; collaboration between students, MAPS staff, teachers, counselors, and parents; specialized reading program for qualifying students; seminars for learning strategies and college planning for MAPS students. **This is not a UC or CSU approved course.**

A psychoeducational testing report current within three years with a specific diagnosis is required for MAPS. Testing must follow documentation guidelines set forth by the Diocese of Orange. Please contact the Center for Learning for a copy of the guidelines and assistance with testing. A meeting with the student, parents, and the Director of Learning will take place after review. A fee does apply to this program of $850 per semester, with financial aid per documented need.
Mater Dei High School has partnered with Santa Ana College (SAC) to provide students with the opportunity to earn high school and potential college credit through our Dual Enrollment Program. Senior students who meet prerequisites can take one or two dual enrollment courses, and credits earned can be applied to Santa Ana College, California State University (CSU), University of California (UC). Credits may be considered for transfer to other higher education institutions, depending on individual program’s credit policies.

Dual Enrollment classes are taught at Mater Dei High School by Mater Dei High School teachers during the school day. Our Dual Enrollment coordinator and Santa Ana College representative provide students with enrollment information and can assist with completing the application process.

**DE471 DUAL ENROLLMENT MATH 219: STATISTICS AND PROBABILITY**

**Course Length:** Semester*

**Grade Level:** 12

**A-G Designation:** None

**Prerequisites:** *Students enrolled in DE471 must also enroll in D771. The two semester classes are to be taken like a yearlong course. Approval of Dual Enrollment Coordinator. (A) Completed Algebra 2/Trig with a “C” or higher and minimum non-weighted, academic GPA of 3.0 by the end of junior year OR (B) Completed Pre-Calculus with a “C” or higher and minimum non-weighted, academic GPA of 2.8 by the end of junior year. Approval of Dual Enrollment Coordinator and School Counselor.

Beginning course in statistics. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics. Includes use of technology.

**DE771 DUAL ENROLLMENT BUSINESS 101: BUSINESS LAW**

**Course Length:** Semester*

**Grade Level:** 12

**A-G Designation:** None

**Prerequisites:** *Students enrolled in DE771 must also enroll in D471. The two semester classes are to be taken like a yearlong course. (A) Completed Algebra 2/Trig with a “C” or higher and minimum non-weighted, academic 10-12 GPA of 3.0 by the end of junior year OR (B) Completed Pre-Calculus with a “C” or higher and minimum non-weighted, academic GPA of 2.8 by the end of junior year. Approval of Dual Enrollment Coordinator and School Counselor.

Fundamental legal principles pertaining to business transactions. Introduction to the legal process. Topics include sources of law and ethics, contracts, torts, agency, criminal law, business organizations, and judicial and administrative processes.
All office aid courses are not UC or CSU approved courses and require approval from their respective offices.

926  FOOTBALL ASSISTANT

Course Length: Year
Grade Level: 10-12
A-G Designation: None
Prerequisites: Approval of Head Football Coach

Credit only, no letter grade given for all office aide courses. Students work under the direction of the Head Football Coach.

908  ATHLETICS INTERN

Course Length: Year
Grade Level: 10-12
A-G Designation: None
Prerequisites: Approval of Athletic Director

Credit only, no letter grade given. Students work under the direction of the Athletic Director and must be a member of the ASB Athletic Commission.

930  LIBRARY SCIENCE

Course Length: Year
Grade Level: 10-12
A-G Designation: None
Prerequisites: Approval of Librarian

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

Course Length: Year
Grade Level: 11-12
A-G Designation: None
Prerequisites: Approval of Director of Discipline

Credit only, no letter grade given for all office aide courses. NOTE: Office Aide - Deans - is limited to 15 students. Students work under the direction of the Deans.

936  OFFICE AIDE: GUIDANCE AND GATEWAY CENTER

Course Length: Year
Grade Level: 11-12

A-G Designation: None
Prerequisites: Approval of Director of and Counseling

Credit only, no letter grade given for all office aide courses.

937  OFFICE AIDE: MAIN OFFICE

Course Length: Year
Grade Level: 11-12
A-G Designation: None
Prerequisites: Approval of Business Manager

Credit only, no letter grade given for all office aide courses. NOTE: Office Aide - Main Office is limited to 7 students. Students work under the direction of the Accounting Supervisor.

938  OFFICE AIDE: CAMPUS MINISTRY

Course Length: Year
Grade Level: 11-12
A-G Designation: None
Prerequisites: Approval of Director of Campus Ministry

Credit only, no letter grade given for all office aide courses. Students work under the direction of the Director of Campus Ministry.

940  OFFICE AIDE: ADVANCEMENT

Course Length: Year
Grade Level: 11-12
A-G Designation: None
Prerequisites: Approval of VP of Advancement

Credit only, no letter grade given for all office aide courses. Students work under the direction of the VP of Advancement.

943  OFFICE AIDE: HEALTH SERVICES OFFICE

Course Length: Year
Grade Level: 12
A-G Designation: None
Prerequisites: Approval of Health Service Coordinator

Credit only, no letter grade given for all office aide courses. NOTE: Limited to 6 students. Students work under the direction of the School Health Service Coordinator.
957  OFFICE AIDE: ACTIVITIES

Course Length: Year
Grade Level: 12
A-G Designation: None
Prerequisites: Approval of Activities Director

Credit only, no letter grade given for all office aide courses. Students work under the direction of the Activities Director.

971  OFFICE AIDE: BOOKSTORE

Course Length: Year
Grade Level: 11-12
A-G Designation: None
Prerequisites: Approval of Bookstore Manager

Credit only, no letter grade given for all office aide courses.
NOTE: Office Aide – Bookstore is limited to 6 students. Students work under the direction of the Bookstore Manager.

1018  LEARNING SKILLS

Course Length: Semester
Grade Level: 9-12
A-G Designation: None
Prerequisites: None

Learning Skills is designed for students who want to improve study skills, organization, and critical thinking. This class is open to all students and is separate from MAPS, which requires documentation/qualification. This course is not UC and Cal State approved.

009  NO BLOCK 1

Course Length: Year
Grade Level: 9-12
A-G Designation: None
Prerequisites: None

No credit given.

010  NO BLOCK 1/Spring

Course Length: Semester
Grade Level: 9-12
A-G Designation: None
Prerequisites: None

No credit given.

1050  DIRECTED STUDIES

The Directed Studies program provides students the opportunity to take career-specific and elective courses online. These courses are self-guided and require students to have independent discipline and may require them to work through school issued breaks. Students may take one (1) Directed Studies course per semester. If students are interested in taking more than one (1) course per semester, Assistant Principal approval is required.

Directed Studies courses cannot be used to fulfill Mater Dei Graduation requirements. If students take a Directed Studies course as part of their Mater Dei schedule the letter grade earned will be included on the Mater Dei transcript and in the Mater Dei GPA. The class will reflect in the body of their Mater Dei transcript under the partnered school’s name. If students take a Directed Studies course outside of their Mater Dei schedule, the course will be listed in the notes section of the transcript and will not be included in their Mater Dei GPA.

Most courses offered are university approved. Some courses are NCAA approved. Directed Studies courses require an additional fee per semester.

If students are interested in taking a Directed Studies course they should see their counselors. If students have further questions please contact the Directed Studies Coordinator.

Please note the following class enrollment and payment dates for the Directed Studies Program:

Fall/Spring Semesters
Enrollment Begins: First Day of Semester
Enrollment Ends: End of first Month of the Semester
Payment Due: End of First Week of Semester (Payment is required before enrollment in course)
Courses Begin: Second Week of Semester
Drop Date: End of first Month of the Semester (If student demonstrates no progress in course work, he/she must drop the course by this date)
End Date: Last Day of Semester Exams

1008  NO BLOCK 8

Course Length: Year
Grade Level: 12
A-G Designation: None
Prerequisites: None

No credit given.