



MOUNT  
DE SALES  
ACADEMY  

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FOR GIRLS

Mount de Sales Academy  
Course Description Booklet  
2019 – 2020

## Introduction

This Course Description Booklet assists students in planning a course of study for the coming year. Please review this information with your parents. It is imperative that the sequence of courses needed to fulfill graduation requirements is understood.

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### Notations:

- N/A** Denotes Courses “not available” for the 2019-2020 Academic Year
- LS** Denotes Linked semester courses

## COURSE SCHEDULING TIMELINE

February 15 <sup>th</sup>	<b>Course Selection sheets distributed</b> ~ <i>in student mailboxes before school starts in the morning</i>
February 19 <sup>th</sup>	<b>Course Electives Fair</b> ~ <i>occurs during lunches</i>
February 21 <sup>st</sup>	<b>Freshman Course Selection Sessions and Sophomore/Junior Student Course Selection Meetings with Counselors begin</b> ~ <i>information will be attached to Course Selection sheets</i>
March 12 <sup>th</sup>	<b>ALL Course Selection sheets and Applications for AP Courses due by 9am to Guidance.</b>

### **\*DUE DATES:**

Course Selection forms must be turned in to the Guidance office by the scheduled date. Please submit your sheets in the box labeled "Course Selection Sheets". Students may submit their sheets prior to their due date. **Students who do not submit their Course Selection Sheets may have their schedule built for them by their guidance counselor.**

### **RECOMMENDATIONS FOR AP, HONORS, LI, LII**

Recommendations for courses are discussed and granted ahead of time by each Academic Department. All courses for which you have been recommended will be reflected on your Course Selection Sheet.

### **RATIONALE FOR YOUR SELECTIONS**

Teachers may rotate the courses they teach from year to year. With this in mind, it would be unwise to select courses based on this year's teacher roster. Choose courses based on your interests and strengths.

### **SCHEDULE CHANGES**

Students will receive a 'rough draft' of their schedule prior to the end of the current school year in order to verify that they have the correct classes, a class for each block and the appropriate number of classes to fulfill graduation requirements. Complimentary changes will only be made for mistakes such as these **through June 6<sup>th</sup>**. Requests to change classes in order to be with friends and/or specific instructors cannot be honored. If a student requests a change to an elective or core level class for any other reason a **\$50 charge** may be assessed by the Business Office.

**In order to maintain schedule integrity the following guidelines will be adhered to when submitting a schedule change request:**

- Students must have received the proper recommendations on the Recommendation Roster before a change will be considered.
- Students may not switch from an AP class to a different AP class.
- No schedule change requests will be accepted after June 6<sup>th</sup> unless requested by an Administrator\*

\*Once the new Academic Year has started, students who feel they have been placed in the wrong level (or teachers who believe a student has been placed in a wrong level) have a 10 day window to switch levels in a subject. The recommendation must be approved by the current teacher and her parent.

## COURSE REQUIREMENTS

Students are encouraged to select their next year's course of study in terms of their post High School goals. The following information is designed to assist students in planning the best course of study to meet these personal goals. One credit is earned for successful completion of a year-long course. Half credit is awarded for successful completion of a semester-long course.

### Mount de Sales Academy requires completion of 26 credits for Graduation:

English	4 credits	Social Sciences:	3 credits – <i>includes US History</i>
Foreign Language	2 credits	Lab Science	3 credits
Religion	4 credits	Math	4 credits - <i>includes Algebra II</i>
Fine Arts	1 credit	Physical Ed	1 credit
Electives	5 credits		

### Course distribution for entrance into colleges and universities in the State of Maryland:

English	4 credits	Lab science	3 credits
Social Sciences	3 credits	Foreign Language	3 credits <i>in same language</i>
Math	4 credits - <i>includes</i> <i>Geometry &amp; Algebra II</i>	Fine Arts	1 credit

### Recommended Course distribution for students interested in highly competitive colleges:

English	4 credits	Foreign Language	4 credits - <i>1 language 4 years</i>
Math	4 credits <i>through Calculus</i>	Lab Science	4 credits - <i>through physics</i>
Social Sciences	4 credits		
Fine Arts	2 credits	<b>OR</b>	2 <sup>nd</sup> language 2 credits

## HONORS AND ADVANCED PLACEMENT

Mount de Sales Academy is a college preparatory, meaning that all courses are designed to be academically challenging. However, some students have the capacity and desire to take on a more rigorous course of study. The following describes the requirements for Mount de Sales Honors and Advanced Placement students:

### HONORS

#### **\*Requirements**

- Has a proven record of strong academic achievement
- Has been recommended by the individual Departments and instructors
- Has obtained the proper prerequisites
- Is willing to accept the challenges presented in a more accelerated course

#### **Honors Courses Offered**

Honors Mathematics Courses	Honors Science Courses
Honors Social Science Courses	Honors English Courses
Honors Spanish (I – IV)	Honors Latin (I – V)
Honors French (I – IV)	Honors Performing Arts Courses
Honors Fine Arts Courses	

### ADVANCED PLACEMENT (AP)

*Available to rising juniors and seniors*

**\*Requirements-** *Students must meet the following requirements in order to apply for an AP class.*

- Student has maintained a strong and successful academic record.
- Student has been recommended by the individual Departments to submit an application. Each AP course must be applied for individually. *Applications may be obtained from Guidance.*
- Student has accomplished the proper prerequisites.
- Student and parent have read, understand, and agree to the **AP Course Expectations** (*Appendix A*)
- Student understands and is willing to accept the challenges of a college level course.
- Student understands she is required to take the AP exam given by the College Board in the spring.
- Student has applied and submitted Course Selection Sheet and AP application ***on time***. *Timeliness on deadlines are the hallmark of success therefore; applications will not be accepted after the deadline as this is the first step in following the rigor expected of an AP applicant.*

All final course selections will be approved by Guidance and the Vice Principal of Academic Affairs.

### **Advanced Placement Courses Offered for 2019-2020**

AP English Language	AP English Literature	AP Biology
AP Chemistry	AP Statistics	AP Calculus AB
AP Calculus BC	AP United States History	AP American Government
AP Psychology	AP World History	AP Spanish
AP French		

## **GRADING**

Honor Roll and membership in the National Honor Society are determined using a weighted grade point average. Courses are designated by: Advanced Placement, Honors, College Preparatory II and College Preparatory I. Mount de Sales uses the following scale is used to determine Grade Point Average.

<b><u>Letter Grade</u></b>	<b><u>College Prep</u></b>	<b><u>Honors</u></b>	<b><u>AP</u></b>
A	4.0	4.5	5.0
B+	3.5	4.0	4.5
B	3.0	3.5	4.0
C+	2.5	3.0	3.5
C	2.0	2.5	3.0
D+	1.5	2.0	2.5
D	1.0	1.5	2.0

### **Mount de Sales uses the following Numerical Grading System**

A	92 - 100
B+	89 - 91
B	84 - 88
C +	81 - 83
C	76 -80
D+	74-75
D	70 - 73
F	69 or below
**I	Incomplete

\*\*Work must be completed by date specified from Administration or a grade of “F” is assigned

**\*Refer to the student handbook for further information on academic policies.**

## RELIGION

### Required Courses:

*Scripture & Doctrine*  
*Sacraments & Morality*  
*Christology & Discipleship*  
*Apologetics & the Call to Holiness*

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**Scripture and Doctrine (010)** Grade 9 Sem 1 & 2 1 credit

#### **College Prep II**

#### ***Bishops' Framework Core 1 & 2.***

The purpose of this course is to deepen students' understanding of God's revelation of Himself and the human person's graced response of faith. The course aims to provide a general knowledge and appreciation of the Sacred Scriptures, through which each student may come to encounter the living Word of God, Jesus Christ. Additionally, students will learn the basic doctrine of the Catholic faith as revealed in Sacred Scripture and Tradition and contained in the Church's Nicene Creed. In learning who God reveals Himself to be, students will evaluate the human person's call to union with the Trinity and the holiness that results from a life lived in and with the love of God.

**Sacraments and Morality (014)** Grade 10 Sem 1 & 2 1 credit

#### **College Prep II**

#### ***Bishops' Framework Core 5 & 6.***

The purpose of this course is to examine Christ's institution of the seven sacraments through an analysis of Scripture and Tradition and to study the aim of the moral life as happiness in union with God. Students will learn each sacrament's form, matter, rites, and validity, and will see that through constant recourse to the sacraments, a real encounter with Christ takes place. Additionally, students will relate to their own lives the moral teachings of Christ as found in the Beatitudes and the Commandments and as safeguarded by the teaching office of the Church. Students will examine the role of virtue, grace, and conscience in the moral act and will be introduced to St. John Paul II's *Theology of the Body* as a help on the journey towards authentic love, truth, and freedom.

**Christology and Discipleship (037)** Grade 11 Sem 1 & 2 1 credit

#### **College Prep II**

#### ***Bishops' Framework Core 3 & 4, inclusive of key objectives from Electives C & D.***

The purpose of this course is to help students recognize Jesus Christ as the fulfillment of all their desires and to understand what it means to be His followers. Students will study what God has done for us through His Son, Jesus Christ, and examine His eternal plan for our own happiness. The course aims to help students understand that in and through the Catholic Church they encounter the living Christ. The students will come to know that the Church is the living Body of Christ today, and they will explore what life as a disciple of Christ entails, including a deeper understanding of prayer, Christian witness, vocation, service, Catholic social teaching, and ultimately, sanctity – the holiness of one's life.

**Apologetics and the Call to Holiness (047)** Grade 12 Sem 1 & 2 1 credit

#### **College Prep II**

The purpose of this course is to deepen students' understanding of the Catholic Church's teachings on faith and morals and to equip them with tools for engaging in intelligent dialogue in a world where these teachings are often misunderstood or misrepresented. Serving as a culmination of four years of study at Mount de Sales, this course moves through basic Christian and Catholic apologetics, preparing students to explain and defend the teachings of the Church from a biblical, catechetical, and pastoral approach. Additionally, students will discuss ways of growing in their faith throughout their lives, recognizing that the topics covered in this course form the foundation of a full life within Christ's body, the Church.

## PHILOSOPHY

### Required Courses:

#### *The Human Person*

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<b>The Human Person (201)</b>	Grade 9*	Sem 1	1/2 credit
<b>College Prep II (232)</b>	Grade 10		
<b>(233)</b>	Grade 11		
<b>(234)</b>	Grade 12		

This course studies what it means to say that human beings are persons, i.e., beings endowed with freedom and an inner life capable of knowing and loving. Topics include: the union of body and soul; the powers of the rational soul and its immortality; human passions and temperaments; the complementarity of the sexes; and the inviolability of the human person which precludes being an object of use by another. From this study, the student will come to appreciate the profound dignity of every human person and the way in which respecting this dignity leads to personal happiness and fulfillment.

*\*All students in all grade levels will take this course in the 2019-2020 School Year.*

**Ethics of the Human Person (202)** Grade 10\* Sem 1 1/2 credit

*\*This course will be established in the 2020-2021 School Year for rising Sophomores, Juniors and Seniors.*

## ENGLISH

Students are placed in the English classes best suited to their skills and needs. A student must receive a specific recommendation from the teachers involved to move from her current English level. Recommendations for Honors placement are based on the following factors:

- Teacher acknowledgement that the student is a high achiever in the current level II class by inviting her to the Writing Sample for Honors Placement
- The Honors Placement writing sample, which the English department faculty evaluates, exhibits higher-level thinking skills
- The student has maintained an "A" average in the level II class
- The student is typically scoring at or above the 90<sup>th</sup> percentile on the critical reading section of the most recent standardized test

Conversely, students currently in an honors level class may be moved to a level II class the following year if they fall below an average of 80% and/or fail to exhibit a strong work ethic in the honors class.

### **Required Courses:**

***Freshman Literary Genre Survey I***

***Sophomore Literary Genre Survey II***

***American Literature***

***or AP English Language and Composition***

***British Literature***

***or AP English Literature***

### **Electives:**

***Creative Writing***

***Humanities Studies LS***

***Study of the Holocaust LS***

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<b>Literary Genre Survey I (300)</b>	Grade 9	Sem 1 & 2	1 credit
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### **College Prep I**

This course is aimed especially at the acquisition of reading and writing skills. Students learn how to approach literature of six types: novels, short stories, poetry, novels, nonfiction, and drama in formal classroom presentations. In addition, students are given a thorough review of the principles of grammar and writing studied in their previous middle school years. Writing is incorporated into all aspects of literature study and testing. In addition, a formal vocabulary unit is studied through the year. The course provides extra emphasis on strategies designed to improve the student's reading and writing skills. The pace of instruction covered in this class is determined by the comprehension of the material covered and the progress made by the individual student. ***\*Prerequisite:*** *Recommendation of department based on review of grades and admissions testing.*

<b>Literary Genre Survey I (301)</b>	Grade 9	Sem 1 & 2	1 credit
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### **College Prep II**

This course is aimed especially at the acquisition of reading and writing skills. Students learn how to approach literature of six types: novels, poetry, short stories, novels, nonfiction, and drama in formal classroom presentations. In addition, students are given a thorough review of the principles of grammar and writing studied in their previous middle school years. Writing is incorporated into all aspects of literature study and testing. In addition, a formal vocabulary unit is studied through the year.

<b>Honors Literary Genre Survey I (351)</b>	Grade 9	Sem 1 & 2	1 credit
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### **Honors**

This course prepares students for the acquisition of mature reading and writing skills by emphasizing critical thinking and analysis of six genres of literature: short stories, nonfiction, poetry, the epic, drama, and novels. Honors students are expected to work at a rapid pace and on an independent level in order to cover the supplementary reading assignments required of this class. In addition, students are given a review of grammar as needed, based on weaknesses which appear in their writing. Writing is incorporated into all aspects of literature study and testing. Furthermore, a formal vocabulary unit is studied throughout the year. ***\*Prerequisite:*** *Department recommendation based on a writing sample given at Mount de Sales and a score at or above the 90<sup>th</sup> percentile on the verbal section of the High School Placement test.*

**Literary Genre Survey II (320)**                      Grade 10                      Sem 1 & 2                      1 credit

**College Prep I**

This course is designed to enhance the student's knowledge and appreciation of literature in the various genres. The course covers the gothic novella, mythology, Shakespearean comedy, nonfiction, and the coming-of-age novel. Grammar usage, vocabulary, and writing techniques are integrated into the course as well, with special emphasis on strategies designed to improve the student's reading and writing skills. Writing is an integral part of all literature study and testing in this course. In addition, a formal vocabulary unit is included throughout the year. The pace of instruction covered in this class is determined by the comprehension of the material covered and the progress made by the individual student. *\*Prerequisite: Students needing this class will be advised by the department.*

**Literary Genre Survey II (321)**                      Grade 10                      Sem 1 & 2                      1 credit

**College Prep II**

The course is designed to enhance the student's knowledge and appreciation of literature in the various genres. The course covers the Gothic novella, mythology, Shakespearean comedy, nonfiction, and the coming-of-age novel. An intensified review of troublesome grammatical principles and usage is given, as well as a unit on the development of the essay. Writing is an integral part of all literature study and testing in this course. In addition, a formal vocabulary unit is included throughout the year. *\*Prerequisite: Successful completion of Literary Genre Survey I..*

**Honors Literary Genre Survey II (352)**                      Grade 10                      Sem 1 & 2                      1 credit

**Honors**

The honors English class is geared to the student who is above grade level in English skills. This course covers the British and American coming-of-age novel; fiction thematically related to man's dual nature; classical mythology, tragedy and epic; Shakespearean comedy and tragedy; and nonfiction. College writing is stressed as preparation for scholarly papers and literary analysis essays. Analytical and critical thinking skills are honed, and grammar and vocabulary are also covered. Extensive outside reading is expected. Pre-AP skills include, but are not limited to, advanced literary and rhetorical analysis. *\*Prerequisite: Recommendation of the Freshman English teacher as determined by the criteria established by the English department; Successful completion of Literary Genre Survey I.*

**American Literature (330)**                      Grade 11                      Sem 1 & 2                      1 credit

**College Prep I**

This basic course gives the student an understanding of the history and development of American literature from the Colonial Era to the present, with emphasis on teacher directed discussion and review. It reinforces writing skills and techniques by focusing on the development of clear, well-organized paragraphs which provide the structure and framework for a unified essay. In addition, the course offers a formal research paper assignment which helps the student use online research materials and library facilities. Writing is an integral part of all units studied and of testing. The course includes instruction designed to improve grammar, word usage, vocabulary, and compositional skills. The pace of instruction covered in this class is determined by the comprehension of the material covered and the progress made by the individual students.

*\*Prerequisite: Successful completion of Literary Genre Survey II.. Students must take this course if advised by the English department.*



**British Literature (341)**                      Grade 12                      Sem 1 & 2                      1 credit  
**College Prep II**

The course is a survey of British Literature from Anglo-Saxon times to the present. It also reviews the development and history of the English language. Students are introduced to various periods and movements throughout this history, such as the Medieval, Renaissance and Regency Periods, and Romanticism. The literature encompasses the heroic epic, drama, poetry, the novel, and essays. Students are expected to read assigned works with guidance, perform research, and give oral presentations. Evaluation of student knowledge is achieved primarily through critical literary analysis essays. Critical thinking and analytical writing are integral to the study of literature in this class. *\*Prerequisite: Successful completion of American Literature*

**Honors British Literature (354)**                      Grade 12                      Sem 1 & 2                      1 credit  
**Honors**

The honors course is a survey of British Literature from Anglo-Saxon times to the present. It also reviews the development and history of the English language. Students are introduced to various periods and movements throughout this history, such as the Medieval, Renaissance and Regency Periods, and Romanticism. Readings include short stories, drama, poetry, novels and essays. Evaluation of student knowledge is achieved primarily through critical essays. Students are expected to read and work independently, perform research, give oral presentations, and maintain a strong work ethic. Intensive student-led seminar discussions on literary topics are held. Mature, critical thinking and analytical writing are integral to the study of literature in this class. *\*Prerequisite: Recommendation of the Junior English teacher as determined by the criteria established by the English department and successful completion of American Literature.*

**Advanced Placement Senior English – Literature & Composition (360)**

**AP**                      Grade 12                      Sem 1 & 2                      1 credit

The advanced placement English course is a college-level course in the reading and critical analysis of literature. The course is designed for students who are especially interested in the reading, discussion, and analysis of literature. Students study representative works from all genres and periods of literature and write critical papers on those readings. The course is specifically designed to give students an opportunity to develop intellectual discipline, critical thinking skills and interpretive skills, to sharpen their research ability, and to become more aware of the nature of literature in an increasingly technological world. Emphasis is also placed on the in-class analytical essay in preparation for the AP exam which students will take in May. *\*Prerequisite: Recommendation of the Junior English teacher as determined by the criteria established by the English department and successful completion of either Honors American Literature or AP English Language and Composition*

**Creative Writing: Various Genres (336)**                      Grades 11, 12                      Sem 1 & 2                      1 credit  
**College Prep II**

This introductory course is designed to inspire and develop the student's ability to express her ideas through the composition and sharing of short stories, creative non-fiction, and poetry. Students will learn the craft of writing by studying the masters of the short story, award-winning contemporary essayists, and a variety of poetic techniques and forms. Throughout the year, students will compile a portfolio of their work as they workshop and revise their writings in each of these three genres. During the fourth quarter, they may work on an independent project in the genre of their choice, including the one-act play. Students are expected to demonstrate a strong degree of self-motivation towards developing creative writing skills as well as a desire to actively participate in class discussion and in workshop style critique of writings. *\*Prerequisite: Recommendation of current English teacher*

**Study of the Holocaust: The Choices They Made (386) LS**

Sem 1 or 2      ½ credit

**College Prep II**                      Grades 11, 12

This one-semester study of the Holocaust is an English Elective which will cover the historical background of the Jewish Holocaust/Shoah (1933-1945) from the perspective of the individuals involved. This event will be studied by reading the poetry, short stories, novels, memoirs, non-fiction accounts, and recorded personal testimonies of survivors, rescuers, liberators, bystanders, and perpetrators. Eli Wiesel's *Night* will be read in the first quarter and students will be required to choose and read an additional whole work on the Holocaust for the second quarter. The position and actions of the Catholic Church and Pope Pius XII will also be examined. Activities will include a visit to the National Holocaust Museum in Washington, DC, listening to guest speakers including Holocaust survivors, and viewing selected films. Students will maintain a literary response journal for personal reflection, write an essay response to *Night*, orally present their 2nd Quarter book choice to the class, create a time line of events, and develop a list of vocabulary words pertinent to the Holocaust. The class will culminate in researching, creating and presenting a power point on a recent or current genocide. This course is designed to give the time and attention due this tragic historical event, discredit the 21st century deniers, and to show that there are free will choices on all levels in an effort to prevent all future genocides. ***\*No Prerequisite*** **This course is offered with Humanities Studies (387)**

**Humanities Studies – Things an Educated Person Should Know (387) LS****College Prep II**                      Grades 11, 12                      Sem 1 or 2                      ½ credit

This Course will begin with the study of The Monuments Men. This will segue the class from the Holocaust into the world of art, paintings and sculpture. Artists such as Auguste Rodin, Ai Wei Wei, Jan & Hubert Van Eyck, Michelangelo and Henri Matisse and Marc Chagall will be presented, and students will learn to “read” a piece of art using FIVE specific questions. Students will choose a well-known artist to present to the class orally using Internet sources and presentation tools. This unit will culminate in a field trip to The Baltimore Museum of Art where students will be asked to find a work by their chosen artist, if possible, and choose a work to “Read.” Next a unit on Classical Music, Composers, and Musical Time Periods will be studied emphasizing 1-2 specific composers for each Period. Students will recognize the FOUR major parts/sections of the Orchestra and instruments included in each section. Giuseppe Verdi's Requiem Mass will be presented in the context of the documentary film Defiant Requiem which portrays the recreation of the Requiem at Theresienstadt Concentration Camp by incarcerated Jews. Eastern Culture will be presented through students' reading of children's books and a Korean Speaker. Students will be prepared for and participate in a Passover Seder. The THREE types of architectural columns will be shown and drawn. Good Manners, etiquette, and Proper Table Place settings will be demonstrated and practiced. Students will also study “26 Words not to Write Wrong”; “25 Words Not to Say Wrong”; and “Latin Abbreviations We All Should Know.” Finally, students can suggest other topics of interest which have cultural value for the class to study including philosophy, poetry, Great Works of literature, and Broadway Musicals. ***\*No Prerequisite*** **This course is offered with Study of the Holocaust (386)**

## MATHEMATICS

Students are placed in the Mathematics classes best suited to their skills and needs. Students may not take an outside course as a replacement for any mathematics course. A student must receive a specific recommendation from her teacher to move from her current Math level. A recommendation for placement in an Honors level class is based on the following factors:

- The student has maintained an A for each quarter in the level II class
- The student has a score of 80% or higher on the midterm and final exams
- The student has a proven record of strong academic achievement

Conversely, a student currently in an honors level class may be moved to a level II class the following year if she falls below the minimum average specified for each course and/or fails to exhibit a strong work ethic in the honors class.

The Mathematics Department reserves the right to change course recommendations through the end of the fourth quarter. In these instances, the students will be notified that their recommendations have been changed.

A **TI-83 or TI-84 Plus** graphing calculator is strongly recommended for all Mathematics classes and is required for the upper Math courses.

### Required:

*Algebra I*  
*Geometry*  
*Algebra II*

### Electives:

*Precalculus*  
*Calculus and Its Applications*  
*AP Calculus AB*  
*AP Calculus BC*  
*AP Statistics*  
*College Algebra*  
*Statistics*  
*Introduction to Computer Science*  
*STEM Explorations*

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<b>Algebra I (401)</b>	Grade 9	Sem 1 & 2	1 credit
<b>College Prep II</b>			

This course is an introduction to the fundamentals of algebra and algebraic operations. It covers signed numbers, absolute value, evaluating and simplifying expressions containing variables, solving and graphing linear equations and inequalities in one and two variables, determining the equations of lines, performing operations with polynomials and rational expressions, applying the laws of exponents, factoring polynomials, solving quadratic equations by factoring and using the quadratic formula, simplifying radicals, and solving equations involving radicals and rational expressions. Applications to geometry, physics and other real-life situations are presented.

<b>Algebra I Concepts (400)</b>	Grade 9	Sem 1 & 2	1 credit
<b>College Prep I</b>			

This course is an introduction to the basic concepts of algebra, its language, and its basic properties and operations. It covers fractions, decimals, signed numbers, absolute value, evaluating and simplifying expressions containing variables, solving equations and inequalities in one and two variables, determining the equations of lines, and performing operations with polynomials. Real life application problems are introduced in various areas.

**\*Prerequisite:** Recommendation of department based on review of grades and admissions testing.

<b>Geometry Concepts (431)</b>	Grade 11	Sem 1 & 2	1 credit
<b>College Prep I</b>			
This course emphasizes logical thinking skills, problem solving and algebraic skills in the study of geometry and its applications. Geometry concepts are approached in both two and three dimensions. Topics covered include basic concepts of points, lines, planes, segments and angles; relationships of parallel and perpendicular lines; polygons and polyhedra which include area and volume formulas. The emphasis of this course is on the geometric relationships rather than formal proof. <i>*Prerequisite: Successful completion of Algebra I Concepts and Algebra II Concepts or completion of Algebra I.</i>			
<b>Integrated Geometry (425)</b>	Grade 9	Sem 1 & 2	1 credit
<b>College Prep II</b>			
This course is for freshmen who have mastered many, but not all, of the topics in algebra as demonstrated by the Algebra I placement test and who have done consistently well in the study of arithmetic and mathematics. Algebra 1 topics will be incorporated throughout this course to lead to algebra mastery and to prepare students for Algebra 2. Students will use problem-solving and algebraic skills in their study of relationships among points, lines, planes, polygons, polyhedra, and circles. They will also study trigonometric functions, area, volume, coordinate geometry, and transformations and will be introduced to logical reasoning and the writing of proofs. <i>*Prerequisite: Recommendation of department head based on admissions testing and MDSA Algebra I Placement exam.</i>			
<b>Geometry (426)</b>	Grades 9, 10	Sem 1 & 2	1 credit
<b>College Prep II</b>			
This course begins with the basic concepts of points, lines, planes, segments and angles. Relationships of parallel and perpendicular lines are developed. Triangles are extensively studied along with an introduction to Trigonometry. Properties of quadrilaterals, polygons and polyhedra are presented which includes area and volume formulas. An introduction to logical reasoning and an overview of proofs is presented. Practical applications are given. This course incorporates both the methods of Euclidean as well as analytical geometry, and includes a review of Algebra in preparation for Algebra 2. <i>*Prerequisite: Successful completion of Algebra I at MDSA or recommendation of department based on admissions testing and MDSA Algebra I Placement exam.</i>			
<b>Honors Geometry (428)</b>	Grades 9, 10	Sem 1 & 2	1 credit
<b>Honors</b>			
This course teaches a variety of formal and informal proof formats. Both inductive and deductive reasoning skills are used as the student searches for relationships among points, lines, planes, polygons, polyhedra, and circles. Practical applications and problem-solving skills are stressed in both two and three dimensions. The trigonometric functions, area, volume, coordinate geometry, and transformations are included. <i>*Prerequisite: recommendation of department based on admissions testing and MDSA Algebra I Placement exam or students in Algebra I at MDSA must meet the required criteria for moving from a College Prep Level II class to an Honors level class.</i>			
<b>Algebra II Concepts (407)</b>	Grade 10	Sem 1 & 2	1 credit
<b>College Prep I</b>			
This course reinforces the basic concepts of Algebra 1 and introduces Algebra II concepts. Some of the topics covered include inequalities, linear functions, polynomials, rational expressions, irrational numbers, complex numbers, quadratic functions, probability, and trigonometric ratios. Real life application problems are introduced in various areas. <i>*Prerequisite: Successful completion of Algebra I Concepts or completion of Algebra I College Prep II and recommendation of department.</i>			

**Algebra II (432)** Grades 10, 11 Sem 1 & 2 1 credit  
**College Prep II**

This course reviews the basic algebraic properties of real numbers, the solutions of linear equations and inequalities, methods for factoring polynomials and simplifying exponential functions and radical expressions. Additional methods for solving systems of linear equations and inequalities are explored. Emphasis is placed on quadratic functions with both real and imaginary roots. In addition, students will gain a basic understanding of probability, logarithmic functions, and trigonometric ratios. Problem solving in real life situations is an integral part of the course. *\*Prerequisite: Successful completion of Algebra I and Geometry or Integrated Geometry*

**Honors Algebra II (436)** Grades 9, 10, 11 Sem 1 & 2 1 credit  
**Honors**

This course builds on the basic concepts covered in Algebra I. Some of the topics covered include properties of real numbers, linear and quadratic equations and inequalities, complex numbers, polynomial functions and rational equations and functions. Students will also gain a basic understanding of probability, logarithmic functions, and trigonometry. Problem solving is an integral part of the course. *\*Prerequisite: An average of 86% or higher in Honors Geometry and department recommendation. Any student who wishes to place into Honors Algebra II from Geometry College Prep II or Integrated Geometry must meet the required criteria in both Geometry and Algebra I. Freshmen require recommendation of department based on admissions testing and MDSA Geometry Placement exam.*

**College Algebra (454)** Grade 11, 12 Sem 1 & 2 1 credit  
**College Prep I**

This course expands understanding of mathematical concepts and the correlation of concepts in numerical, algebraic, and graphical forms. Polynomial, exponential, and logarithmic functions are studied in greater depth. Students explore a variety of real-life applications. Further work with graphing calculators supports the concepts presented. *\*Prerequisite: Successful completion of Algebra II Concepts*

**College Algebra (453)** Grades 11, 12 Sem 1 & 2 1 credit  
**College Prep II**

This course strengthens algebraic concepts in preparation for further study in mathematics. Students will review Algebra concepts before exploring quadratic, exponential, logarithmic, and trigonometric functions. A study of personal finance is also included. *\*Prerequisite: Successful completion of Geometry and Algebra II. Students who have completed or are concurrently enrolled in Precalculus may not take this course.*

**Statistics (469)** Grades 11, 12 Sem 1 & 2 1 credit  
**College Prep II**

This course is designed to help prepare students for college work in science, social sciences, and education. Students will construct and draw inferences from charts, tables, and graphs that summarize data from real-world situations; use the normal distribution to predict outcomes from sample data; understand and apply measures of central tendency, variability, and correlation; understand sampling and recognize its role in statistical claims and create confidence intervals for a proportion. *\*Prerequisite: Successful completion of Algebra II.*

**Precalculus (440)** Grades 11, 12 Sem 1 & 2 1 credit  
**College Prep II**

This course is designed to prepare students for college level mathematics. Topics covered include linear relations and functions, the nature of graphs, polynomial, rational and inverse functions. Exponential, logarithmic and trigonometric functions and their graphs are extensively studied in this course. Analytical geometry is introduced in relation to standard conics. Sequences and series are also introduced. *\*Prerequisite: Successful completion of Honors Algebra II or an assessment average of 93% or higher in Algebra II College Prep II and teacher recommendation.*

**Honors Precalculus (452)** Grades 10, 11, 12 Sem 1 & 2 1 credit

**Honors**

This course is designed both for students who intend to take AP Calculus at Mount de Sales and to prepare students for college level Calculus. Students will expand their knowledge of the nature of graphs, quadratic, polynomial, rational, and inverse functions. Exponential, logarithmic, and trigonometric functions and their graphs are also extensively studied in this course. Other topics include conic sections, sequences and series, and an introduction to limits and other early Calculus topics. *\*Prerequisite: An assessment average of 89% or higher in Honors Algebra II and teacher recommendation.*

**Calculus and its Applications (457)** Grades 11, 12 Sem 1 & 2 1 credit

**College Prep II**

Calculus and its Application provides students with in-depth instruction in the basic concepts of calculus. The course is designed for those students with the desire to take calculus who are not planning to take the Advanced Placement Examination. Topics include functions, limits and differential calculus with an emphasis on real world problems involving related rates, optimization and motion. Integral calculus with applications that include finding areas enclosed by the graphs of functions and finding the volumes of shapes defined by functions will also be studied. *\*Prerequisite: An assessment average of 76% or higher in Honors Precalculus or an assessment average of 80% or higher in Precalculus College Prep II and teacher recommendation.*

**Advanced Placement Calculus AB (446)** Grades 11, 12 Sem 1 & 2 1 credit

**AP**

This is a rigorous course designed for highly motivated students of proven ability in mathematics. This course begins with the theory of limits, differentiation, applications of derivatives, differential equations. Integrals as accumulation functions, the Fundamental theorem and applications of the integral are included. Students will study all of the topics required for success on the AP exam. A summer packet on Precalculus topics must be completed by the first day of classes. *\*Prerequisite: An assessment average of 89% or higher in Honors Precalculus and teacher recommendation.*

**Advanced Placement Calculus BC (447)** Grades 11, 12 Sem 1 & 2 1 credit

**AP**

This is a rigorous course designed for highly motivated students of proven ability in mathematics. It is fast-paced and encompasses two semesters of college material. This course begins with the theory of limits, differentiation, applications of derivatives, and differential equations. Integrals as accumulation functions, the Fundamental Theorem of Calculus, and applications of the integral are included. Students will then proceed to explore sequences and series and parametric, vector and polar functions with respect to Calculus. Students will study all of the topics required for success on the AP exam. A summer packet on advanced Precalculus topics must be completed by the first day of class. *\*Prerequisite: An assessment average of 92% or higher in Honors Precalculus and teacher recommendation.*

**Advanced Placement Statistics (449)** Grades 11, 12 Sem 1 & 2 1 credit

**AP**

This course introduces students to major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four big ideas throughout the course: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. Students will develop analytical and critical thinking skills by describing patterns in data, designing and conducting studies to collect data, exploring random phenomenon through probability and simulations, and using tests of significance to interpret and draw conclusions from data. This rigorous course requires students to have a solid background in basic mathematical skills, including the use of fractions and decimals, as well as strong critical reading and communication skills. The TI-84 Plus calculator is used daily and computer software will also be integrated throughout the course to emphasize the role of technology in statistics. Students will study all of the topics required for success on the AP exam. *\*Prerequisite: Completion of Honors Algebra II with an 86% or higher average or completion of Precalculus with an 84% or higher average or concurrent registration in Precalculus and recommendation from the English department.*

**S.T.E.M. Explorations (943)**

**College Prep II**

Grades 11, 12

Sem 1 & 2

1 credit

In this project-based course, students will apply math, science, and engineering skills that move beyond the classroom, to identify and design solutions to a variety of real-world problems. Students will work both individually and in collaborative teams, to employ a sophisticated, sequential, and iterative design development process to solve these problems. Additionally, students will be engaged and challenged in various engineering topics, such as engineering design, robotics, and 3D printing.

*\*Prerequisite: A "B" or higher in Algebra II (432) and a math teacher recommendation.*

**Introduction to Computer Science (944)**

Grades 11, 12

Sem 1 & 2

1 credit

**College Prep II**

This is an introductory course in computer science topics. Students will explore the conceptual ideas of computing, gain a basic understanding of how computers use the problem-solving process, and learn basic computer programming. The curriculum for this class is based on the Code.org Computer Science Principles curriculum and units will include: Problem Solving, The Internet, Digital Information, Intro to Programming, Building Apps, Big Data & Privacy, and Web Design. *\*No Prerequisite*

## SOCIAL SCIENCES

Students are placed in the Social Science classes best suited to their skills and needs. A student must receive a specific recommendation from the teachers involved to move from her current Social Science level. Recommendations for Honors placement are based on the following factors:

- Teacher recommendation that the student complete the Writing Sample for Honors Placement, based on a high achieving performance in the current level II class
- The Honors Placement writing sample, which the Social Science department faculty evaluates, exhibits higher-level thinking skills
- The student has maintained an "A" average in the College Prep II class
- The student is typically scoring at or above the 85<sup>th</sup> percentile on the critical reading section of the most recent standardized test

Conversely, students currently in an honors level class may be moved to a level II class the following year if they fall below an average of 80% and/or fail to exhibit a strong work ethic in the honors class.

### Required:

*Western Civilization*  
*American Government - LS*  
*United States History - LS*  
*Modern United States History*

### Electives:

*AP American Government*  
*AP World History*  
*Psychology*  
*AP United States History*  
*AP Psychology*  
*Geography and Global Issues*  
*Intro to Economics*

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<b>Western Civilization (611)</b>	Grade 9	Sem 1 & 2	1 credit
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**College Prep II**  
This survey course will focus on cultural, political, economic, and geographic aspects of Western European history and the impact of European civilization on the rest of the world. Students will analyze key moments in history which have formed our present culture and the thinking of the people who brought those moments to pass. Students will learn the basic theories of the development of humankind while studying the chronological and geographic development of Western Europe from the Greco-Roman period to 1815. Students will also develop the critical reading, document analysis, and argumentative writing skills needed in a college-preparatory course.

<b>Honors Western Civilization (615)</b>	Grade 9	Sem 1 & 2	1 credit
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**Honors**  
This course will introduce students to the foundations of Western European Civilization from the Classical Era of Greece and Rome and the rise of Christianity through the Middle Ages, the Renaissance and Reformation, the Age of European Discovery, the Age of Science and Enlightenment through the Eighteenth Century Era of Revolution. Emphasis will be on historical thinking skills, providing students the opportunity to use critical reading and analysis to examine key themes and processes to gain a stronger foundation and contextual knowledge and understanding of the study of history. **\*Prerequisite:** *Students must have achieved a score at or above the 90th percentile on the High School Placement Test and have department approval based on a writing sample proctored at Mount de Sales.*

<b>American Government (621) LS</b>	Grade 10	Sem 1	½ credit
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**College Prep II**  
This first semester sophomore course will prepare students to be intelligent participants in their government. Basic civics will be taught in one semester. Students will cover the United States Constitution, the three branches of government and civil rights. **This course is taken with United States History (622).**

**United States History (622) LS**      Grade 10      Sem 2      ½ credit  
**College Prep II**

This sophomore course begins the three semester U.S. History program. Course content traces the evolution of the American nation from the Revolution to Reconstruction within the greater context of developing advanced analytical reading, thinking, and writing skills. **This course is taken with American Government (621).**

**Honors American Government (631)**      Grade 10      Sem 1      ½ credit  
**Honors**

This first semester sophomore elective course introduces students to the basic principles of American government and civics including the historical foundations of American government, separation of powers, elections and voting, as well as civil rights, while continuing to develop advanced analytical reading, writing and thinking skills.

***\*Prerequisite:*** *Students must meet the criteria established by the Social Science department as listed in the beginning of this section.* **This course is taken with United States History (632).**

**Honors United States History (632)**      Grade 10      Sem 2      ½ credit  
**Honors**

This sophomore elective course is designed to prepare students for AP United States History in their junior year. This semester course traces the development of the American nation from Revolution to Reconstruction. Students will develop advanced analytical reading, thinking, and writing skills through the evaluation of primary source documents, cause and effect relationships, the influence of geography on history, and the concept of continuity and change over time by relating current events with the past. ***\*Prerequisite:*** *Students must meet the criteria established by the Social Science department as listed in the beginning of this section.* **This course is taken with United States History (631).**

**Modern United States History (623)**      Grade 11      Sem 1 & 2      1 credit  
**College Prep II**

This year long junior course completes the three semester U.S. History program. Course content traces the evolution of the United States from the Progressive Era to the end of the Cold War. A major theme of the course will be the rise of the United States as a 20th century world power.

**Honors Modern United States History (653)**      Grade 11      Sem 1 & 2      1 credit  
**Honors**

This year long junior course completes the three-semester U.S. History program. Course content traces the evolution of the United States from the Progressive Era to the end of the Cold War. A major theme of the course will be the rise of the United States as a 20th century world power. This Honors course moves at a more rapid pace than the standard junior course. The course also requires completion of document based questions and critical analysis essays based on the historiography and the political, economic, religious, social, intellectual and artistic analyses of the aforementioned topics. ***\*Prerequisite:*** *Students must meet the criteria established by the Social Science department as listed in the beginning of this section.*

**Advanced Placement United States History (660)**      Grade 11      Sem 1 & 2      1 credit  
**AP**

This yearlong, college-level course is a two-semester survey of American History, beginning at the age of exploration/discovery and extends to the 21st century. Many people, especially high school students, cannot enthusiastically articulate the vibrancy and noteworthiness of American history. Therefore, interpretation of historic documents, primary sources, and literary influences are key pedagogical tools present in an AP curriculum. Students experience both subjective and objective assessments. Moreover, this course places strong emphasis on reading, writing, and analysis. Students must possess strong cognitive and writing skills to participate in the AP History class. The AP curriculum emphasizes the following dichotomous historical themes: (i) Americanism and diversity, (ii) citizenship and immigration, (iii) social and cultural conflicts, (iv) reform movements, (v) economics and politics, (vi) civil and foreign wars, (vii) diplomacy and globalization. This course requires students to complete a summer assignment. *\*Prerequisite:* Students must meet the criteria established by the Social Science department as listed in the beginning of this section. Successful completion of Honors American Government (631) and Honors United States History (632).

**Advanced Placement United States Government and Politics (661)**      Grade 12      Sem 1 & 2      1 credit  
**AP**

This college level course prepares students for successful completion of the AP exam in May. The course contrasts the idealistic theories of basic citizenship with the practical application of modern political science. Major themes examined in the course content include the historical and Constitutional foundations of American Government, public opinion and voter behavior, political parties and interest groups, governmental institutions and policy processes, and civil rights and liberties. Students will develop advanced analytical reading, writing and thinking skills through the evaluation of primary source materials, public opinion polls, Supreme Court decisions, contemporary legislation, newspaper and journal articles, as well as audio-visual media. This is a reading-intensive course that requires students to cover a large quantity of material outside of class. A separate AP American Government summer assignment may also be required. *\*Prerequisite:* Recommendation of Junior-year history teacher, successful completion of a year of U.S. History, at least an 80% average in AP US History or Honors Modern US History or at least a 90% in Modern US History.

**Advanced Placement World History (664)**      Grades 11, 12      Sem 1 & 2      1 credit  
**AP**

This college level elective course prepares students for successful completion of the AP exam in May. This course examines the history of Africa, the Americas, Asia, Europe, and Oceania from 8000 B.C. to the present. Taught at Mount de Sales through the lens of Roman Catholicism, the AP curriculum explores broad trends and global processes by focusing on five themes: (i) interactions between humans and their environment, (ii) development and interactions of cultures, (iii) state building, expansion and conflict, (iv) creation, expansion and interaction of economic systems, (v) development and transformation of social structures. Students will develop advanced historical thinking skills by reading, discussing, and analyzing primary and secondary sources. This is a writing intensive course which makes extensive use of essays and document analysis. AP World History may require students to complete a summer assignment. *\*Prerequisite:* Seniors must have the recommendation of Junior-year history teacher, and at least an 80% average in AP US History or Honors Modern US History, or at least a 90% in Modern US History. Juniors enrolled in AP United States History or Honors Modern United States History may concurrently enroll in AP World History with permission from the Social Science Department. This course is offered every other year.

**Psychology (674)** Grades 11, 12 Sem 1 & 2 1 credit  
**College Prep II**  
This is a survey course of various topics in psychology and their applications. The emphasis is on psychology as a science, and the critical evaluation of psychological research is stressed. An understanding of the processes of thinking, learning and human development fosters healthy mental processes in the student. The limitations of psychology in understanding the spiritual nature of man are also discussed. **Students may not earn credit in both Psychology and AP Psychology. \*No Prerequisite**

**Advanced Placement Psychology (675)** Grades 11, 12 Sem 1 & 2 1 credit  
**AP**  
This college-level elective course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of humans and other animals. Topics covered include the history of psychology, research methods, the biological bases of behavior, sensation and perception, human development, learning and cognition, motivation and emotion, personality, psychological disorders and social psychology. Students will be challenged to develop advanced scientific thinking and critical analysis through connecting concepts across the various topics and applying them to new psychological scenarios. This is a reading-intensive course that requires students to cover a large quantity of material outside of class. Students will take the AP Psychology Exam in May. **Students may not earn credit in both Psychology and AP Psychology. \*Prerequisite: "B" or better in current year L2, Honors or AP English and Science classes. Previous or concurrent enrollment in Anatomy is very helpful. Social Science department recommendation required.**

**Introduction to Economics (680)** Grades 11, 12 Sem 1 & 2 1 credit  
This course will introduce students to economic concepts and principles. Topics covered will include macroeconomics, microeconomics, business organizations, the different economic systems, supply and demand, labor trends, taxes and government spending, international trade, the stock market and personal finance. Students will use the concepts from this course to design their own business. **\*No Prerequisite**

**Geography and Global Issues (690)** Grades 11, 12 Sem 1 & 2 1 credit  
**College Prep II**  
This elective course will focus on world geography and current events. It provides a survey of the physical, political, economic, historical, and cultural makeup of various world regions. Focus will be on the exploration of the relationships between current global issues and the five themes of geography: location, place, region, movement, and human-environment interaction. An emphasis will be placed on map and writing skills, as well as oral presentation. **\*No Prerequisite**

## SCIENCE

Every effort is made to place students in the Science classes best suited to their skills and needs. Therefore, a student must have the written permission from the teachers involved to move from her assigned level to either a higher level or to a lower level. Students who are currently placed in a College Preparatory level II class and who want to be considered for an honors level in the next school year must have an "A" average in the level II class and must meet any specific requirements listed for the honors level course. Conversely, students currently in an honors level class may be moved to a level II class the following year if they fall below an average of 80% and/or fail to exhibit a strong work ethic in the honors class

### **Required: 3 Lab Sciences**

*Biology*  
*Chemistry*

### **Electives:**

*Honors Anatomy/Physiology: Taken before/concurrently with AP Bio*  
*Physics – Recommended*  
*Forensics*  
*Marine Ecology- N/A in 2019-2020*  
*Environmental Science*  
*Introduction to Computer Science*  
*AP Chemistry*  
*AP Biology*  
*Research in Science*  
*S.T.E.M. Explorations*

<b>Biological Concepts (710)</b>	Grade 9	Sem 1 & 2	1 credit
<b>College Prep I</b>			

This is an introductory course in the basic concepts of biology. All forms of life, beginning with the cell as the basic unit, are surveyed. Students will explore concepts related to the environment and ecology. Contemporary issues in biology are discussed. Laboratory skills are developed by implementing the use of microscopes and dissections and students will apply the scientific method of gathering and recording data and drawing conclusions based upon observations. *\*Prerequisite: Admission placement based on previous academic record including and admissions testing.*

<b>Biology (711)</b>	Grade 9	Sem 1 & 2	1 credit
<b>College Prep II</b>			

This course surveys all forms of life beginning with the most basic unit, the cell, which includes genetics, DNA, and cell processes. Students will also explore the simplest organism life forms up through plants and vertebrates. Ecology and environmental issues are addressed, in addition to contemporary issues in biology. Laboratory skills are developed by implementing the use of microscopes, probeware and dissections.

<b>Honors Biology (750)</b>	Grade 9	Sem 1 & 2	1 credit
<b>Honors</b>			

This is an in-depth survey of all forms of life beginning with the most basic unit, the cell, which includes genetics, DNA, and cell processes. Plants and environmental issues will also be addressed. Particular emphasis will be placed on contemporary issues in biology through the use of independent study projects and presentations. Laboratory skills are developed through use of probeware, microscope and dissections, as well as the scientific method of inquiry. *\*Prerequisite: Admission placement based on review of previous academic record including, science placement testing, HSPT scores, and requires approval of the Science Department.*

**Advanced Placement Biology (761)**      Grade 12      Sem 1 & 2      1 credit  
**AP**

AP Biology is a rigorous inquiry-based college-level biology course. In 2012, College Board redesigned the once content-driven curriculum to one with a greater emphasis on enduring conceptual understandings and analytical scientific thinking. Students will be challenged to develop advanced inquiry and reasoning skills, connecting the concepts across the topics and applying them to new biological scenarios. The revised AP Biology curriculum encompasses four “big ideas” supported by Essential Knowledge and Science Practices. A significant amount of independent content preparation must be completed at home to allow time for discussion, labs, and inquiry during class. The four big ideas are: 1) **Evolution** – the process of evolution drives the diversity and unity of life; 2) **Cellular Processes** – Biological systems utilize free energy and molecular building blocks to grow; 3) **Genetics and Information Transfer** – living systems store, retrieve, transmit, and respond to information essential to life processes; and 4) Biological systems interact and these systems and their interactions possess complex properties. *\*Prerequisite: “A” in all Science courses and Science teacher recommendation. Honors Anatomy and Physiology must be taken as a prerequisite or concurrently.*

**Chemistry Concepts (730)**      Grade 10, 11      Sem 1 & 2      1 credit  
**College Prep I**

This is an introductory course in the basic concepts of chemistry with a minimum of mathematics. Emphasis is on the elements and their properties and structure, basic chemical reactions, and practical applications of chemicals used on a daily basis. Chemicals that are energy sources, food, medicines, poisons and the ways they improve or are hazardous to living organisms will be studied. *\*Prerequisite: Successful completion of Algebra I & Biology.*

**Chemistry (731)**      Grade 10      Sem 1 & 2      1 credit  
**College Prep II**

This course offers good background knowledge of chemistry. Emphasis will be on ideas and concepts rather than complex problem-solving techniques. Laboratory experience is an important part of this course. This traditional introductory chemistry course includes units on nomenclature, balancing equations, the mole concept, atomic structure, acids, bases and energy relationship. This course is intended to prepare students for college chemistry. *\*Prerequisite: Successful completion of Biology and Algebra I, and completion of, or concurrent registration in, Geometry, and Science teacher recommendation.*

**Honors Chemistry (751)**      Grade 10      Sem 1 & 2      1 credit  
**Honors**

This course is an introduction to chemistry for the more math-inclined student who may pursue a science major in college or who wishes a more thorough grounding in the principles of chemistry. Topics include atomic theory, stoichiometry, states of matter, chemical nomenclature, energy relationships, solutions, kinetics, organic chemistry, thermodynamics, periodic properties, and laboratory procedures. This course is intended to prepare students for college chemistry. *\*Prerequisite: “A” average in Biology, 90 or above in Honors Biology, and a “B” or better in Honors Geometry, taking Honors Geometry concurrently, or recommended for Honors Algebra II, and Science teacher recommendation.*

**Advanced Placement Chemistry (762)** Grades 11, 12      Sem 1 & 2      1 credit  
**AP**

AP Chemistry is a rigorous inquiry-based college-level chemistry course. In 2013, the College Board redesigned the once content-driven curriculum to one with a greater emphasis on enduring conceptual understandings and analytical scientific thinking. Students will be challenged to develop advanced inquiry and reasoning skills, connecting the concepts across the topics and applying them to new chemical scenarios. The revised AP Chemistry curriculum encompasses six “big ideas” supported by Essential Knowledge and Science Practices such as data analysis and model interpretation. A significant amount of independent content preparation must be completed at home to allow time for discussion, labs, and inquiry during class. A summer assignment is required and additional independent study over extended weekends and breaks will also be necessary. *\*Prerequisite: An “A” in Honors Chemistry and Science teacher recommendation.*

**Honors Anatomy and Physiology (744)** Grades 11, 12 Sem 1 & 2 1 credit

**Honors**

This course is offered every year and examines the structure and function of the human body beginning with the cell, cell metabolism and homeostasis. A brief survey of histology followed by a comprehensive study of each body system and its biochemical operations; physiology and systems interactions are introduced. An overview of the pathogenesis of disease is discussed throughout the course. Laboratory experiences include microscopic study of tissue types and various dissections. *\*Prerequisite: "B" average in Biology and Chemistry Courses and Science teacher recommendation.*

**Marine Ecology (743) NA in 2019-2020** Grades 11, 12 Sem 1 & 2 1 credit

**College Prep II**

In this elective science course, students study the biotic and abiotic elements of the marine environment. This includes such factors as ocean exploration, water chemistry, classification of marine organisms, the ecology of marine biomes and the various types of marine resources. Field trips and laboratory experiences including dissection supplement the study. *\*Prerequisite: Successful completion of Biology and Chemistry and Science teacher recommendation.* **This course offered every other year.**

**Environmental Science (736)** Grades 11, 12 Sem 1& 2 1 credit

**College Prep II**

This course provides students with the opportunity to learn about the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. It will also enable students to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. This course is multidisciplinary and will draw on students' ability to problem solve and work in groups and apply knowledge from the basic sciences and mathematics. Topics covered in this course are: Foundations of Environmental Science, Ecology, Humans and the Environment, Earth's Resources, and Towards a Sustainable Future. *\*Prerequisites: Successful completion of Biology and Chemistry and Science teacher recommendation.* **This course offered every other year.**

**Forensic Science (737)** Grades 11, 12 Sem 1 & 2 1 credit

**College Prep II**

This advanced laboratory course will expose students to new technological advances in forensics and crime solving techniques. Topics will include DNA analysis, fingerprinting, hair and fiber analysis, serology, toxicology and organic analysis. Students will apply knowledge from biology, chemistry, earth science and physics using scientific processes to solve problems. *\*Prerequisite: Successful completion of Biology and Chemistry and Science teacher recommendation.*

**Physics Concepts (732)** Grades 11, 12 Sem 1 & 2 1 credit

**College Prep I**

This course will give students the opportunity to learn about major topics of physics including, motion, forces, energy, electricity, and other physical parameters. This course is concept oriented and does not extensively focus on mathematics. The format of this course will include, lecture, presentation, discussion, minimal problem-solving, and laboratory activities. *\*Prerequisite: Successful completion of Biology and Chemistry and completion of, or concurrent registration in, Algebra II Concepts (407) and Science teacher recommendation.*

<b>Physics (742) College Prep II</b>	Grades 11, 12	Sem 1 & 2	1 credit
<p>This course will give students the chance to learn about the major topics of physics but will contain less mathematics than Honors Physics. This course will provide students with a strong conceptual understanding of high school physics and will involve hands-on experimentation as well as demonstrations and lectures. <i>*Prerequisite: Successful completion of Biology and Chemistry. Completion of, or concurrent registration in, Algebra II (432) and Science teacher recommendation.</i></p>			
<b>Honors Physics (741) Honors</b>	Grades 11, 12	Sem 1 & 2	1 credit
<p>This in-depth algebra-based curriculum challenges the student to do more than simply plug numbers into a given equation. Students will learn to experimentally determine the relevant equations in physics and use them with understanding. This course will emphasize problem solving as well as clearly explaining solutions. Honors Physics will prepare students for college level physics and related sciences. Topics include experimental design, constant velocity motion, acceleration, Newton’s Laws, energy, simple harmonic motion, waves, sound, light, and electricity. <i>*Prerequisite: Successful completion of Biology and Chemistry. Completion of, or concurrent registration in, Honors Algebra II (436) and Science teacher recommendation.</i></p>			
<b>Research in Science (768) College Prep II</b>	Grade 11, 12	Sem 1 & 2	1 credit
<p>In this course, students will be introduced to the scientific research process and setting in an independent and authentic way. Students will acquire proper research skills and apply those skills to pursue an area of interest within a scientific research setting. Students must be able to work independently and successfully manage their time. They will also explore the ethical questions surrounding their research and discuss current research topics from various scientific disciplines. This hands-on research course will allow the students to conduct a research project throughout the year and present their findings in a professional-style meeting at the conclusion of the course to the greater community. <i>*Prerequisite: A “B” or higher average in both Biology and Chemistry and science teacher recommendation. Final determination will be made by the Science Department Chair.</i></p>			
<b>S.T.E.M. Explorations (943) College Prep II</b>	Grade 11, 12	Sem 1 & 2	1 credit
<p>In this project-based course, students will apply math, science, and engineering skills that move beyond the classroom, to identify and design solutions to a variety of real-world problems. Students will work both individually and in collaborative teams, to employ a sophisticated, sequential, and iterative design development process to solve these problems. Additionally, students will be engaged and challenged in various engineering topics, such as engineering design, robotics, and 3D printing. <i>*Prerequisite: A “B” or higher in Algebra II (432) and a math teacher recommendation.</i></p>			
<b>Introduction to Computer Science (944) College Prep II</b>	Grades 11, 12	Sem 1 & 2	1 credit
<p>This is an introductory course in computer science topics. Students will explore the conceptual ideas of computing, gain a basic understanding of how computers use the problem-solving process, and learn basic computer programming. The curriculum for this class is based on the Code.org Computer Science Principles curriculum and units will include: Problem Solving, The Internet, Digital Information, Intro to Programing, Building Apps, Big Data &amp; Privacy, and Web Design. <i>*No Prerequisite</i></p>			



**Honors French IV (554)**                      Grades 11, 12                      Sem 1 & 2                      1 credit

**Honors**

The Honors French IV learner will continue to strengthen her speaking, listening, reading and writing skills. The student will follow a course which includes a grammar text and a variety of authentic materials, including literature and poetry. Non-literary sources will include film, music, audio-texts research, news articles and visual arts. More intense analytical discussion and writing are required. Much of the class discussion, reading and writing will be based on the six AP French Language and Culture themes - Global Challenges (Environment), Families & Communities, Personal & Public Identities (Multiculturalism), Beauty & Aesthetics, Science & Technology, and Contemporary Life (Education). **All students participate in the National French Exam. \*Prerequisite:** *Successful completion of French III Honors and teacher recommendation.*

**Advanced Placement French (561)**                      Grades 11, 12                      Sem 1 & 2                      1 credit

**AP**

The AP French learner will continue to strengthen her speaking, listening, reading and writing skills at the college level. The student will follow a course which includes a programmed grammar text and a variety of authentic materials, including literature and poetry. Non-literary sources will include film, music, audio-texts research, news articles and visual arts. More intense analytical discussion and writing are required. Her class work will involve more complex grammar and vocabulary acquisition. Much of the class discussion and writing will be based on the six AP French Language and Culture themes - Global Challenges (Environment), Families & Communities, Personal & Public Identities (Multiculturalism), Beauty & Aesthetics, Science & Technology, and Contemporary Life (Education). This course will combine additional speaking, listening, reading and writing assignments to prepare for the AP French Language examination. **All students participate in the National French Exam. All students enrolled in the course are expected to sit for the AP French Language exam. \*Prerequisite:** *Successful completion of French III or IV Honors and teacher recommendation. There are summer assignments associated with this class.*

**Honors Latin I (571)**                      Grades 9, 10, 11, 12                      Sem 1 & 2                      1 credit

**Honors**

Latin I is intended to introduce students to Classical Latin language and culture. The curriculum emphasizes reading proficiency in Latin through mastery of grammatical forms and syntactical patterns while noting the influence of Latin on English and other languages. The skills of listening and speaking are taught as essential language elements, but not with the intent that the student will engage in any free-style conversation. Short Latin readings about the daily life and government of Ancient Rome, easy readings in ecclesiastical Latin and traditional Latin prayers comprise the course material. This class will also address the beginnings of the Church in the pagan Roman World. **All students participate in the National Latin Exam. \*No Prerequisite**

**Honors Latin II (572)**                      Grades 9, 10, 11, 12                      Sem 1 & 2                      1 credit

**Honors**

This course continues the study of Latin grammar and vocabulary. By translating reading passages designed to impart vignettes of Roman “daily life,” the student will expand her knowledge of Roman Culture and her understanding of Latin grammatical forms. The Latin writings of this course are selected to enable the student to read more advanced Latin material including selections from Julius Caesar’s *Gallic Wars*; Church writings in Latin and passages from Saint Jerome’s *Vulgate*. **All students participate in the National Latin Exam. \*Prerequisite:** *Successful completion of Honors Latin I and teacher recommendation; or, Mount de Sales Foreign Language placement test score.*

**Honors Latin III (573)** Grades 10, 11, 12 Sem 1 & 2 1 credit

**Honors**

The student refines her knowledge of Latin through reading. Her experience with complex Latin syntax is developed and she is thus prepared to read original excerpts from ancient, medieval and modern authors including the *Vulgate*, selections from Church encyclicals and prose renditions of Virgil's *Aeneid*. Pagan Roman customs regarding birth, marriage and religion provide the cultural focus and are contrasted with our Roman Catholic heritage. **All students participate in the National Latin Exam.** *\*Prerequisite: Successful completion of Honors Latin II and teacher recommendation.*

**Honors Latin IV (574)** Grades 11, 12 Sem 1 & 2 1 credit

**Honors**

Honors Latin IV offers the advanced Latin student a study of various Latin Christian and Roman writers including Vergil. While primarily a reading course, continuing study of historical and cultural aspects of Rome will be included. Students will expand their knowledge of the perspectives and practices of Greco-Roman civilization by examining its philosophy, religion and mythology. Contributions of the Romans to modern law, government, art, and architecture will also be discussed. The goal of this course is to become more fluent in the understanding of written Latin. We will read, discuss and critique un-adapted Latin texts in class in order to draw conclusions about the authors' culture(s). The three overarching questions for this class are: What does the text say? Why does the text express itself in the way that it does? What does the text tell us about the culture that produced it? **All students participate in the National Latin Exam.** *\*Prerequisite: Successful completion of Honors Latin III and teacher recommendation.*

**Honors Latin V (575)** Grades 11, 12 Sem 1 & 2 1 credit

**Honors**

Honors Latin V offers the advanced Latin student an opportunity to continue study of various Latin Christian and Roman writers including Vergil, Caesar, Livy, Ovid, St. Jerome, St. Augustine and St. Thomas Aquinas among others. Latin V is primarily a reading course designed to increase fluency in Latin and to begin Latin composition. Participants will be encouraged to sit for the SAT II Latin test; grammar instruction will support this goal. Students will expand their knowledge of Greco-Roman civilization by examining its philosophy, religion and mythology in texts. Latin texts will be read in class and independently in order to draw conclusions about the authors' culture(s). The three overarching questions for this class are: What does the text say? Why does the text express itself in the way that it does? What does the text tell us about the culture that produced it? **All students participate in the National Latin Exam.** *\*Prerequisite: Successful completion of Honors Latin IV and teacher recommendation.*

**Spanish I (512)** Grades 9, 10, 11, 12 Sem 1 & 2 1 credit

**College Prep II**

This course is an introduction to the Spanish language and culture; it will develop the learner's listening comprehension, speaking proficiency, reading comprehension and writing skills in the target language. The student will acquire a variety of the basic grammar structures, patterns and vocabulary relating to everyday life in Spanish speaking societies. Students will be expected to submit reports orally as well as in written form. **All students participate in the National Spanish Exam.** *\*No Prerequisite: Mount de Sales Foreign Language placement test score.*



**Honors Spanish III (534)**                      Grades 10, 11, 12                      Sem 1 & 2                      1 credit

**Honors**

This course is designed for students who wish to achieve a greater degree of proficiency in the Spanish language. It emphasizes the continued development of reading, writing, listening and speaking skills while also stressing effective grammar and vocabulary usage through oral presentations, written assignments, and class discussions within a cultural context. This class progresses at a faster pace than the standard level. Overall Spanish language expansion will focus on the understanding and analysis of short literary texts, video clips and recordings. The class will also present a further exploration of Hispanic culture, art, and history. **All students participate in the National Spanish Exam.** \**Prerequisite: Successful completion of Honors Spanish II and teacher recommendation.*

**Honors Spanish IV (542)**                      Grades 11, 12                      Sem 1 & 2                      1 credit

**Honors**

This course is designed to put into practical use the previously learned skills from Spanish I –III, with a review of grammatical points at a faster pace than the standard level. An online multimedia based language lab will be used both in class and at home to provide interactive activities in order to practice, reinforce and further explore the vocabulary, grammar structures, and cultural themes for each chapter. An emphasis on readings of surveys, blogs, newspapers and magazine articles, poems and short stories will provide thought-provoking content and cultural information for active composition writing. Comprehension of spoken Spanish will also be strengthened through class discussions and the use of audio resources, verbal response to voice-recordings, online videos, and Web links. Upon recommendation of the teacher, this course may be taken as a differentiated section at the regular level and would be notated as Spanish IV College Prep II. **All students participate in the National Spanish Exam.** \**Prerequisite: Successful completion of Spanish III or Honors III and teacher recommendation.*

**Advanced Placement Spanish (562)**      Grades 11, 12                      Sem 1 & 2                      1 credit

**AP**

This class is the equivalent of a third year college course in Spanish composition and conversation. It is designed to put into practical use the grammar, vocabulary and oral skills previously learned, with further instruction of sophisticated grammar points needed for the AP Spanish Language exam. Comprehension of spoken Spanish will be reinforced through class discussions on a variety of current topics. The learner will compose lengthy compositions on a range of topics to strengthen writing skills and will present oral presentations on assigned topics frequently. Assessment is frequent and will include speaking, listening and writing components that mirror the AP exam. **All students participate in the National Spanish Exam. All students enrolled in the course are expected to sit for the AP Spanish Language exam.** \**Prerequisite: Successful completion of Honors Spanish III and teacher recommendation. There are summer assignments associated with this class.*

## FINE ARTS

**PLEASE NOTE: Fine Arts classes do not follow the same Course Selection Process as other classes. Please read the prerequisite or sign up directions for each specific course very carefully. One Fine Arts credit is required for graduation.**

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### Visual Arts

*We offer a two track approach to the Visual Arts:*

*Line and Color – this introductory course will lead to Portfolio and other limited Visual Arts Classes*

*Graphic Communications – this introductory course will lead to Yearbook and other limited Visual Arts Classes*

**Line and Color (130)**                      Grades 9,10,11,12                      Sem 1 & 2                      1 credit  
**College Prep II**

Line and Color is a foundation art course designed to teach the four components of art education: production, criticism, history and aesthetics. Emphasis is placed on the teaching of the Elements and Principles of Art. **This course is the prerequisite for Portfolio. \*No Prerequisite** Sign up on course selection sheet in “elective” section

**Graphic Communications (924)**                      Grades 9, 10, 11 12                      Sem 1 & 2                      1 credit  
**College Prep II**

This course is the entry level class for the Technology Track in the Visual Arts. In this course students will learn how to effectively use Adobe Creative Suite programs such as Illustrator, Photoshop, and InDesign as well as how to use the elements and principles of design. With each of these programs, students will also learn essential visual communication skills such as branding, demographics and target markets, typography, layout development, research skills, creative strategies and concept development, and a brief history of graphic design. There will also be a strong focus on photography and photojournalism skills, which include how to use a camera, headline and blog writing, and candid photography. Students will work in an environment that fosters creative strategizing and thinking to develop effective means of visual communication. **This course is the required prerequisite for Yearbook. \*No prerequisite** Sign up on course selection sheet in "elective" section

**Honors Portfolio (145)**                      Grades 10, 11, 12                      Sem 1 & 2                      1 credit  
**Honors**

This course is a guided independent studio art class aimed at developing the student’s high school art portfolio. Independent assignments will be altered to fit the individual needs of each student. Students will have the opportunity to prepare a body of work that will result in a well developed art portfolio if they desire to pursue art as a major in college. There are summer assignments associated with this class. **\*Prerequisite:** Successful completion of Line and Color, art teacher approval signature on course signup sheet.

**Honors Advanced Portfolio (146)**                      Grades 11, 12                      Sem 1 & 2                      1 credit  
**Honors**

This course allows the serious advanced art student more freedom to pursue independent study in a variety of media and techniques. The course moves from a teacher-directed course of study to a more student-directed approach. Students design their own summer assignment packets. This course greatly enhances the student’s preparation for their college art portfolio. **\*Prerequisite:** Successful completion of Honors Portfolio and art teacher approval signature on course signup sheet.

**Independent Advanced Portfolio (149)**                      Grades 12                      Sem 1 & 2                      1 credit  
**Honors**

This course is for designed for the serious advanced art student. It provides flexibility for planning independent study and focuses on experiences that further develop personal artistic style through refinement in three areas of emphasis: 1) quality, 2) concentration on portfolio development and 3) breadth of experiences in exploring formal, technical, and expressive qualities of works. Students design their summer assignments. *\*Prerequisite: Successful completion of Advanced Portfolio and art teacher approval on the signup sheet.*

**Clayworks (159)**                      Grades 10, 11,12                      Sem 1 & 2                      1 credit  
**College Prep II**

This year long course will incorporate a semester devoted entirely to hand building techniques and sculptural design. Processes from creation of clay, firing, glazing, as well as kiln management will be covered. Students will explore both additive and subtractive methods as well casting techniques, as well as understanding the assemblage technique. Creating a visual record will be explored using the sketchbook journal. *\*Prerequisite: Successful completion of Line and Color or Graphic Communications. Sign up on course selection sheet in "elective" section and art teacher approval signature on course signup sheet.*

**Advanced Placement Art History (687) N/A 2019-2020**                      Grades 11, 12      Sem 1 & 2                      1 credit  
**AP**

The study of art history allows students to discover anew the world in which they live. Throughout the year, students will learn about how people have responded to and communicated their experiences through art, as well as the historic and cultural contexts in which art was created. Students will be welcomed into the global art world as active participants, engaging with its forms and content as they research, discuss, read, and write about art, artists, art making, and respond to and interpret art. Advanced Placement Art History is a college-level course in the critical analysis and historical significance of the visual arts. Students examine major forms of artistic expression from the ancient world to the present from a variety of cultures. Students learn to look and analyze works of art within their historical context and to articulate that analysis in a meaningful way. This course is specifically designed to give students an opportunity to develop intellectual discipline, critical thinking skills and interpretive skills, sharpen research ability, and to analyze the visual arts with respect to history and culture. Emphasis is placed on the in-class analytical essay and visual identification of works of art as representative of the major artistic movements or cultures in preparation for the AP exam, which students will take in May. This course will be structured around the big ideas and essential questions of the AP Art History Course and Exam Description. Time permitting with the permission of the administration, we will take a field trips to the Walters Art Museum, Baltimore, MD and participate in the National Gallery of Art's AP workshop in Washington, D.C. *\*Prerequisite: This course is open to juniors and seniors with the recommendation of the current English or history teacher. Additionally, students must have a minimum 3.75 GPA in their academic coursework. **This course offered every other year.***

**Yearbook (930)**                      Grades 12                      Sem 1 & 2                      1 credit  
**College Prep II**

The Yearbook course offers students comprehensive experiences with detailed explorations in photography, graphic design, and editing. In addition to gaining confidence and proficiency in photography and design, students will learn how to handle deadlines and class communication to create a cohesive publication. Students in this course are required to learn basic elements of design, layout, photography, journalistic writing skills and become familiar with Adobe InDesign and Photoshop programs, as well as Yearbook Ave. Yearbook students will attend key events, gather photos and compile information for our yearbook. *\*Prerequisite : Successful completion of Graphic Communications and art teacher approval signature on the course signup sheet.*

## Performing Arts

**Speech and Performance (166) N/A 2019-2020**      Grades 10,11,12      Sem 1 & 2      1 credit  
**College Prep II**

This class enables students to perform in front of an audience in a variety of contexts. Students will master proper body language, correct pronunciation and vocal projection while giving informative and persuasive speeches, interpreting, writing, and reciting poetry and performing monologues. They will develop self-awareness skills that enable them to create and maintain a character as well as script analysis methods based on modern western acting technique. The culmination of their collaboration is shared with the community through performance of one act plays in the Spring. *\*No Prerequisite*

**Advanced Speech and Performance (176) N/A 2019-2020**      Grades 11,12      Sem 1 & 2      1 credit  
**Honors**

In this honors level class allows students to explore both the practical and analytical aspects of performance. Through a rigorous series of creative projects, they are challenged to study advanced principles of acting and script analysis and serve as actor, director and dramaturg. Students are expected to lead improvisation exercises and class discussions. Emphasis on independent study will allow students to specify a field of expertise as performer or director. By attending and critiquing theatre productions they also identify ways to support the theatre in their community. *\*Prerequisite: Speech and Performance or Theatre Arts.*

**Theatre Arts (168)**      Grades 10,11,12      Sem 1 & 2      1 credit  
**College Prep II**

This course takes students through the entire process of dramatic production. They will explore the many roles of technical theatre including scenic, costume and stage make-up design, stage management and marketing. Students will work collaboratively to create design concepts and have the opportunity for hands-on application through set and costume building for the school musical production. They will also examine the historical development of Western theatre from ancient Greek tragedy to the American musical. They also attend and critique theatre productions. *\*No Prerequisite*

**Advanced Theatre Techniques (169)**      Grades 11,12      Sem 1 & 2      1 credit  
**Honors**

Advanced Theatre takes production to the next level. Students will use their knowledge of theatrical design and style in the execution of their own production. They are challenged to produce works through analysis of history, culture and artistic genre. Because this is an honors level class, students will serve as leaders in script analysis and use of appropriate production design. Emphasis on independent study will allow students to specify a field of expertise in set design, historical costume production, and stage management. By attending and critiquing theatre productions they also identify ways to support the theatre in their community. *Prerequisite: Speech and Performance or Theatre Arts.*

**Chorus (190)**      Grades 9, 10, 11, 12      Sem 1 & 2      1 credit  
**College Prep II**

The only requirement for this class is a love of singing! Chorus is open to all grades and focuses on the fundamentals of healthy tone production, vocal mechanics, and ensemble performance. Don't read music? No problem! This class will help you develop the tools needed to read and analyze music effectively. Students may take consecutive years of this course as the repertoire will change each year. *\*No Prerequisite Sign up on course selection sheet in "elective" section. Chorus is a prerequisite for entrance into Concert Choir.*

**Honors Concert Choir (191)**                      Grades 10, 11, 12                      Sem 1 & 2                      1 credit

**Honors**

This is an upper level course in which students work to develop the finer skills of performance, musical expression, and technique. Auditions are held in the spring semester and students may audition for Concert Choir upon the successful completion of Chorus. Each Concert Choir member must demonstrate and maintain excellent vocal technique and musicianship to participate in this select ensemble. Students perform from a varied repertoire of choral literature and may take consecutive years of this course as the repertoire will change each year.

**\*Prerequisite:** One credit completed in Chorus, a formal audition, and subsequent permission by the instructor.

**Sign up for an audition time outside of the refectory. Limit 16 students.**

**Symphonic Orchestra (192)**                      Grades 9, 10, 11, 12                      Sem 1 & 2                      1 credit

**College Prep II**

Instrumentalists of all experience levels are welcome in Symphonic Orchestra. The only requirements are an ability to read music and a strong commitment to improvement! This course focuses on building the fundamental skills needed to successfully perform in small and large ensemble settings. Students may take consecutive years of this course as the repertoire will change each year. **\*No Prerequisite** Sign up on course selection sheet in "elective" section.

**Honors Advanced Orchestra (193)**                      Grades 10, 11, 12                      Sem 1 & 2                      1 credit

**Honors**

This honors ensemble focuses on the more advanced aspects of performance, musical expression, and technique. From Baroque to Big Band, this orchestra concentrates on studying more challenging literature while taking a closer look at the history and theory behind the music. Students may take consecutive years of this course as the repertoire will change each year. **\*Prerequisite: Audition- Sign up for an audition time outside of the refectory.**

**Honors Chamber Ensemble (194)**                      Grades 11, 12                      Sem 1 & 2                      1 credit

**Honors**

Both instrumentalists and vocalists are welcome in this honors ensemble. This course provides the students with the opportunity to refine technique, develop musical expression, and deepen understanding of performance practice through the study of small ensemble repertoire. Instrumentalists, pianists and vocalists will form various ensembles throughout the year. Students cultivate deeper understanding of their musical gifts through various performance and service opportunities. Students may take consecutive years of this course as the repertoire will change each year.

**\*Prerequisite: One credit in any music course, audition and instructor permission. Limit 14 students.**

**Dance Fundamentals (162)**                      Grades 9, 10, 11, 12                      Sem 1 & 2                      1 credit

**College Prep II**

This is a foundational dance course in ballet, modern, and jazz open to all students. The course explores the elements of dance and principles of movement, focusing on body alignment, movement vocabulary, and choreography. The student gains knowledge of dance theory and dance history, as well as developing an appreciation of the art form. Students may take consecutive years of this course as the repertoire will change each year. **\*No Prerequisite.** Sign up on course selection sheet in "elective" section.

**Honors Dance Company (164)**                      Grades 10, 11, 12                      Sem 1 & 2                      1 credit

**Honors**

This is an intermediate/advanced level dance class which includes an in-depth exploration of both classical and contemporary dance forms. The class has a strong emphasis on performance and choreography of a variety of dance styles, allowing the student to increase her technique and artistry as well as expand her movement vocabulary. The student will solidify her knowledge of dance theory through research and develop a personal aesthetic. Students may take consecutive years of this course as the repertoire will change each year. **\*Prerequisite : Successful completion of Dance Fundamentals or a formal audition, and subsequent permission by the instructor.**

## PHYSICAL EDUCATION

**Requirements:** 1 Physical Education Credit

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**Physical Education/Health (822)**                      Grades 9, 10    Sem 1 & 2    1 credit  
**College Prep II**

This course provides students the skills and knowledge to develop and maintain a healthy degree of physical activity and fitness for daily living. Students will enjoy a variety of recreational and sports activities, including soccer, volleyball, handball, and badminton. Students will also acquire an understanding of a variety of health topics, covering physical, social, and mental/emotional health. Each area of study will discuss the nature of the problem, primary prevention, and behavior change. *\*No Prerequisite*

**Dance Fitness/Health (812)**                                      Grades 9, 10, 11    Sem. 1 & 2    1 Credit  
**College Prep II**

This course provides students the skills and knowledge to develop and maintain a healthy degree of physical activity and fitness for daily living. Students will enjoy a variety of dance fitness forms, including Pilates, Zumba, Jazz, and Line Dance. Students will also acquire an understanding of a variety of health topics, covering physical, social, and mental/emotional health. Each area of study will discuss the nature of the problem, primary prevention, and behavior change. *\*No Prerequisite*

**Lifetime Fitness (825)**    Grades 11, 12    Sem 1 & 2    1 credit  
**College Prep II**

This course is designed to enhance the student's overall level of physical fitness. Students will be introduced to concepts of exercise physiology and the skills of lifetime fitness include mental and emotional health, managing risk factors, and lifestyle choices. An emphasis will be on activities that improve or maintain the five components of physical fitness: cardio-respiratory endurance, muscular strength, muscular endurance, flexibility, and body composition. They will be exposed to a broad scope of physical activities. Students will also analyze nutritional data, disease prevention, and current health and wellness trends. *\*No Prerequisite*

## INTEGRATED TECHNOLOGY

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<b>Graphic Communications (924) College Prep II</b>	Grades 9, 10, 11 12	Sem 1 & 2 (See Fine Arts Section)	1 credit
<b>S.T.E.M. Explorations (943) College Prep II</b>	Grade 11, 12	Sem 1 & 2 (See Math or Science Section)	1 credit
<b>Introduction to Computer Science (944) College Prep II</b>	Grades 11, 12	Sem 1 & 2 (See Math or Science Section)	1 credit

## SACRED HEART PROGRAM

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### **Sacred Heart Seminar (399)**

The Sacred Heart Seminar is a unique class designed to build academic skills and utilize the work for other classes to apply those skills. The class has a fluid design, so that it can adapt to the needs of the students at any given time. Students will focus primarily on reading, writing, study skills, test taking, and organization. Students will also focus on learning more about themselves and how they learn, developing a comfort level with their own learning disabilities so that they can effectively advocate for themselves. **\*Prerequisite:** *Formal Psychoeducational Testing submitted. Approved for enrollment by Director of Sacred Heart Program.* **\*\*Additional Fee**

**APPENDIX A: AP Course Expectations**

<b>Course</b>	<b>Amount of reading per class</b>	<b>Outside of class time expected</b>	<b>Tests/Essays/Papers per quarter</b>	<b>Major projects, other info</b>	<b>Summer work</b>
<b>English Language (Juniors)</b>	10-70 pages per class period for homework (including essays, excerpts, etc.) 1 major work (novel/play) per quarter	3-5 hours per week (depending on unit of study)	1 major paper per quarter 3-4 timed essays (Semester 2) 1-2 tests weekly vocab, AP test terms, and reading quizzes	One 7-8 page literary analysis research paper (step x step process in 3rd quarter & culminating in 4th quarter)	Summer reading list of 3 books with specialized writing assignments
<b>English Literature (Seniors)</b>	About 50 pages per class for reading homework; Approximately two or three major literary works per quarter plus additional poetry selections.	Approximately 3-5 hours per week (depending on unit of study)	2 or 3 timed essay tests 2 to 4 one-page analyses 1 poetry project per semester weekly reading quizzes, literary term quizzes and AP practice	One 8-10-page literary analysis paper on specific literary selections due at the end of the first semester. Includes original analysis and some research of literary criticism.	Anna Karenina and 2 existential novellas; specialized writing assignments on summer reading selections.
<b>United States History</b>	1 to 1.5 chapters per week. The amount of reading depends on the amount of pages in each chapter. There are 42 chapters that need to be covered before May. The curriculum for this class covers Christopher Columbus to the Civil War (before Christmas) and then Reconstruction to present day history from January to May.	Approximately 4-6 hours per week. More study time is required to study for the actual exam. However, students are exempt from the final exam	1-2 DBQs 1 Quiz or take home packet for each chapter Document analyses for each chapter There is a heavy emphasis placed on the usage of primary sources apart from the textbook. Heavy emphasis is also placed on "Historiography," "Synthesis," and "Contextualization."	Power point projects (Reconstruction) Class Lecture DBQs SAQs LEQs Stream or Screen Cast o Matic The class also participates in a project at the end of the year after the exam.	Summer reading list with specialized writing assignments. You are required to read one Historical book/novel. I provide you with a wide variety of choices.
<b>United States Government and Politics</b>	8-10 pages per class for homework	45min – 1 hour per class, excluding study time prior to a test	2-3 units per quarter- each unit includes 2-3 small assignments, 2-3 quizzes, and a test Biweekly current events assignment 1 larger writing assignment per quarter, modeled after a portion of the AP exam	A research investigation project relating a political problem or current issue to course content – typically in the 3rd quarter	Read the Constitution and complete a corresponding assignment

<b>World History</b>	1-2 chapters in textbook per week. Primary source documents and academic journal articles accompanying each chapter. 36 chapters to cover before AP Exam.	At least 5 hours per week. More study time is required to study for the AP exam.	1 formal DBQ. Numerous in-class essays. 2 exams (covering whole units). Quizzes as needed.	1 independent project per quarter. Numerous graded discussions.	5 chapters in textbook with accompanying quizzes and identifications.
<b>Art History</b>	50 – 100 page per week (Text has many illustrations.)	3-4 hours per week	1 major paper, 2 timed essays, 1-2 Tests, weekly quizzes	Oral Presentations	Summer reading assignment with written assignment and oral presentation on the first quarter
<b>Biology</b>	1-2 chapters of 25+ pages with an on-line assignment	4-6 hours per week independent study of materials to be used in class inquiries.	2-3 unit tests (multiple chapters of material) 1-2 lab reports or critique analysis 2-3 Free Response Question (FRQ) quizzes	Inquiry-based course. Independent learning of the material is required to facilitate practicing higher order thinking in class activities.	Comprehensive overview packet due first day of class.
<b>Chemistry</b>	At least 2 hours per week	At least 6 hours per week	2 Unit Tests Approximately 4 Lab Reports 2-3 Quizzes	Labs are inquiry based, requiring student design. This course requires independent thought and learning.	Honors Chemistry Review Packet Test in September
<b>Psychology</b>	Approximately 5 hours per week	Approximately 5-6 hours per week	2-3 cumulative Tests per quarter, 1-2 Essays depending on quarter	quarter projects (at least 1 per semester) to count as a test grade. Significant amount of memorization required.	None
<b>AB Calculus</b>	Not applicable, but daily homework is assigned	4 to 5 hours per week	2 to 3 per quarter	Students take practice AP exam in May	Pre-Calculus review packet
<b>BC Calculus</b>	Not Applicable, but daily homework is assigned	Approximately 5 to 6 hours per week (HW not covered in class, see teacher when needed)	3-4 Chapter tests per Quarter. Midterm is an AB Calculus Exam	Major review for Midterm done outside of class. Review for AP Exam done inside/outside of class.	Pre-Calculus Review Packet
<b>Statistics</b>	1-2 Chapters per week (approximately 1 hour). <i>More reading than in previous math courses.</i>	4 to 5 hours per week	1-2 tests and 1-2 short quizzes per quarter. <i>More writing than in previous math courses.</i> Midterm is half of an AP Stat exam.	1 major project per quarter collecting and analyzing data and 1-2 smaller in-class group projects	Review of and introduction to basic applied data and statistics. Some material should be review from previous exposure to data and statistics, but <i>some content may be new.</i>

<b>French</b>	Varies, generally 2-3 pages per class with a written or oral response required.	2 hours per class	Bi-weekly Grammar and Vocabulary Quizzes, 3 Formal Assessments per quarter, Frequent AP test practice	Oral Presentations on independent research (one per quarter), 5 Paragraph Essays on Unit Topics (one per quarter), numerous graded discussions, participation in French National Contest	Oral Presentations on independent research (one per quarter), 5 Paragraph Essays on Unit Topics (one per quarter), numerous graded discussions.
<b>Spanish</b>	Pages per night varies according to the unit of studies,	2 hours per class period	Weekly listening, speaking, reading & writing. Similar to AP exam given in May	TV / radio listening reports Cultural oral presentations (5 per quarter)	Read: Selection of Readings Review the basic grammar
<b>Latin</b>	Varies according to the unit of study	2 hours per class	Weekly quizzes, Monthly essay/test and vocabulary flashcards	take home and in class assessments	Read in English: <u>The Aeneid</u> <u>The Gallic Wars</u> Study on-line vocabulary