



ST. MARY'S HIGH SCHOOL

2020-2021

COURSE CATALOG

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GRADUATION REQUIREMENTS

To graduate from SMHS, a student must earn a minimum of 28 credits by fulfilling the following course requirements:

Theology:	4.0 credits	Or 1 credit for each year of attendance.
English:	4.5 credits	Must include Writing Lab/Speech (225) or Speech (949).
Mathematics:	4.0 credits	Must include Geometry (319 or 320) and Algebra II (321 or 322). Students should take a math course each year.
Science:	3.0 credits	Must include Biology (520). 3 years Science is required; students are encouraged to take four years of science.
Social Studies:	3.0 credits	Must include World Geography (610), American History (630), and American Government (636) or AP American History (632).
Foreign Language:	1.0 credit	One year required. Two years of the same language is recommended.
Physical Education / Health:	1.0 credit	PE/Health (821) for 0.5 credits or Health (811) and Physical Education (820) separately for 1.0 credits. Health (811) must be completed during Freshman year (or summer prior). Physical Education (820) must be completed by Sophomore year.
Electives:	5.5 credits	Or the number needed to fulfill the 28-credit requirement. Includes PLTW, 4 th year of Science, 5 th year of Math, 2 nd or more year of Foreign Language, etc.
Community Outreach:	2.0 credits (in 4 years)	0.5 credit for 25 hours during freshman and senior years; 0.5 credit for 50 hours during sophomore and junior years.

Failure to meet SMHS requirements for graduation means that the student may not participate in either the Baccalaureate Mass or the Commencement Exercises.

Satisfying Graduation Requirements

Satisfaction of graduation requirements is affected by the following policies:

Concurrent Enrollment Course(s)

A concurrent enrollment course is any course, whether classroom, correspondence or on-line, taken for credit at another fully accredited high school or college while the student is enrolled at St. Mary's High School. A concurrent enrollment course will be approved only if the course is not offered at St. Mary's or if the student is repeating a failed course. If a concurrent enrollment course is an alternative to a course required by St. Mary's or would normally follow a course required by St. Mary's (for example, an Advanced Placement version of a required St. Mary's course), a student may not take the concurrent enrollment course for credit until completing the appropriate St. Mary's course. The student must submit a Concurrent Enrollment Form to the counselor for approval prior to taking the course. The student is responsible for all course fees.

Independent Study

Students may request petition to take a course through independent study only if there is an unresolved schedule conflict and a clear need for the student to take the course. Student may take independent study for additional elective credits, but only for courses that already exist (students and teachers are not to create new courses for students that are not already in the approved course curriculum). Students do not receive any AP or honors credit for independent study courses. Teachers are not obligated to take students for independent study. The students are required to fulfill all the same requirements for the course as all other students taking the course (homework, exams, etc) and therefore some courses may not lend themselves easily to independent study, i.e. classes with labs, required speeches, group projects, etc. The course will be noted as Independent Study on the student's transcript. Approval for all independent courses includes course teacher, department head, counselor, and principal. Student must complete the required form. There is an additional \$400 fee per semester for all independent study courses.

International Students

Credits transferred from international students' transcripts will be given credit with a "P" or "F". International students must meet all graduation requirements, including community outreach hours, in order to graduate. International students may present the transcript from their country to the college for consideration of grades earned at the online school with the St. Mary's transcript when applying for admission.

Online Course Credit Transfer Policy

Credits transferred from fully accredited online schools will be given credit with a "P" or "F". Students may present the transcript from the online school to the college for consideration of grades earned at the online school with the St. Mary's transcript when applying for admission. Any online course taken by a current SMHS student for credit (usually only for remediation of a failed course) must be approved by the Counseling Department prior to taking the course for credit to be granted on the transcript. All online courses must be taken through fully accredited online schools, and students must take all tests for the course while proctored by the SMHS counseling staff.

Physical Education (PE) Waiver

Students may request a waiver of the PE graduation requirement for the following reasons: (1) they actively participate for two entire seasons in interscholastic sports; or (2) they actively participate in a competitive and supervised sport (i.e., figure skating or gymnastics) which practices or competes on a near-daily basis for at least twelve consecutive months. The student should submit the PE Waiver Request Form to the counselor for approval as soon as possible after he/she has satisfied the requirements for a waiver. If the PE waiver is

approved, the student satisfies the PE graduation requirement and does not have to take PE (820) but does not receive credit for PE and still must satisfy the overall graduation credit requirement. The PE Waiver only affects the PE graduation requirement; the Health (811) graduation requirement must still be satisfied.

Placement Testing

Placement tests are generally given to incoming students in the Winter. There is a general standardized placement test covering English, Math and Science, and a special test in Math. Students who are placed in advanced courses because of placement tests do not receive credit for the skipped courses and must still meet all graduation requirements and total credit requirements.

Scheduling of Classes

Student schedules should consist of a minimum of six academic classes each semester and no more than one study hall or Teacher Assistant course per semester. Teacher Assistant courses may be scheduled for Seniors only. Students may not request a “late start” or “early out” unless the student is scheduling a course to be taken at another institution.

Speech Waiver

Students may request a waiver of the Speech graduation requirement if they meet the following requirements during any one academic year: (1) they participate in a minimum of forty practice hours with the Forensics Team (minimum twenty practice sessions), (2) they compete in a minimum of six (6) speech and debate tournaments (aka ‘Saturday Tournaments’) during the year, and (3) they compete in a minimum of two (2) student congresses during the year. The student is responsible for tracking his progress toward these requirements. The student should fill out the Speech Waiver Request Form, have it approved by the Forensics Team coach, and submit it to the counselor for approval as soon as possible after he/she has satisfied the requirements for a waiver. If the speech waiver is approved, the student satisfies the speech graduation requirement and does not have to take Speech (949), but does not receive credit for speech and still must satisfy the overall graduation credit requirement.

Testing-Out

Students may not test-out of any course or graduation requirement except as noted above.

Transfer Courses

Students may transfer courses taken for credit at another fully accredited high school prior to admission. The student must provide an approved transcript to the counselor.

Weighted Grades

Weighted grades are received for courses taken at St. Mary’s High School (SMHS) which are designated as Advanced Placement (AP) or Honors (H). Weighted grades are received for courses taken at other accredited high schools which are designated as AP. Weighted grades are received for courses transferred in from other accredited high schools which are designated as Honors only if the course is also designated as Honors at SMHS. Weighted grades are not received for courses taken at other accredited high schools if the course is not designated as Honors at SMHS.

	<i>FRESHMAN</i>	<i>SOPHOMORE</i>	<i>JUNIOR</i>	<i>SENIOR</i>
<i>THEOLOGY</i>	Theology I	Theology II	Theology III	Theology IV
<i>ENGLISH</i>	English I <i>or</i> English IA	English II <i>or</i> English IIA (Honors) AND Speech	English III <i>or</i> AP Language & Composition	English IV <i>or</i> AP Literature & Composition
<i>MATH</i>	Foundations of Algebra I <i>or</i> Algebra I <i>or</i> Algebra I Analysis	Algebra I <i>or</i> Geometry/Accelerat ed Geometry <i>or</i> Alg II Analysis (Honors)	Geometry <i>or</i> Algebra II <i>or</i> Alg II Analysis (Honors) <i>or</i> Pre-Calculus	Algebra II <i>or</i> Alg/Trig <i>or</i> Pre-Calc <i>or</i> AP Calculus
<i>FOREIGN LANGUAGE</i>	Spanish I <i>or</i> French I	Spanish II <i>or</i> French II	Spanish III <i>or</i> French III	Spanish IV <i>or</i> French IV
<i>SCIENCE</i>	Science <i>or</i> Biology	Biology <i>or</i> Science Elective(s)	Science Elective(s)	Elective(s)
<i>SOCIAL STUDIES</i>	World Geography	American History	American Government <i>or</i> AP U.S. History	Elective(s)
<i>OTHERS</i>	Health AND Physical Education	Elective(s)	Elective(s)	Elective(s)

Math Courses

Common Math Sequences (Many more sequences exist)				
	<i>Freshman Year</i>	<i>Sophomore Year</i>	<i>Junior Year</i>	<i>Senior Year</i>
Less Abstract Content	Foundations of Algebra	Algebra 1	Full Year Geometry	Algebra 2
Standard Level Content	Algebra 1	Full Year Geometry	Algebra 2	Advanced Alg. & Trigonometry <i>or</i> Statistics <i>or</i> Algebra 2 Analysis
More Abstract Content	Algebra 1 Analysis <i>or</i> Algebra 1 Analysis and Spring Semester Accelerated Geometry	Fall Semester Accelerated Geometry and Algebra 2 Analysis <i>or</i> Algebra 2 Analysis	Pre-Calculus	AP Calculus <i>and/or</i> Statistics

THEOLOGY

St. Mary's Theology is built upon the traditional premise of "Faith seeking Understanding." These are academic courses and they seek to provide a solid foundation of the twin pillars of Catholic Revelation, Scripture and Tradition.

Hence, Freshman Theology/Theology I is a full year course providing the Scriptural component that students will need to carry through the rest of our courses.

Sophomore Theology/Theology II is a full year course providing the Tradition that students will also need to then join with that Scriptural sensibility to master our 'upper division' courses.

Junior Theology is broken into two sections: Theology III-A is 'Ethics' and Theology III-B is 'Social Justice.'

Senior Theology breaks down to Theology IV-A, World Religions, and Theology IV-B, Contemporary Catholic Spirituality.

In essence, our Theology is a full four-year program to enhance the understanding and application of the Grand Catholic Tradition. Each year builds upon the other; students are expected to 'grow' in their comprehension of "Faith seeking Understanding."

110 Theology I – Scripture

First Semester

Old Testament/Hebrew Scriptures

0.5 credit

Required

The study of the Hebrew Scriptures (primarily focused on the Pentateuch) is a survey course that encompasses the major themes in the Old Testament, providing students with a general knowledge and appreciation for the Sacred Scriptures. Students learn to read the Bible and become familiar with biblical vocabulary such as Inspiration, Revelation, Inerrancy, Typology, Covenant, Context, and Salvation History. In addition, this course involves basic bible literacy including stages of biblical development, Scripture & Tradition, the Senses of Scripture, and the variety of literary genres used in biblical writing. Students gain an understanding of Scripture through an interpretation of the history and context from which the books of the Bible were developed. The timeline and framework of Salvation History and the unity of the Old and New Testament are also introduced. An understanding of the Jewish people as our spiritual ancestors and how the Old Testament is used in Roman Catholic liturgies are incorporated into this course, as well. Prayer and reflection material is used throughout this course to allow students to relate the Hebrew Scriptures to issues of contemporary life and culture.

Texts: *The Old Testament: Our Call to Faith & Justice.* Ave Maria Press, 2013.

(ISBN 10: 1-59471-301-4; ISBN 13: 978-1-59471-301-9)

The Catholic Youth Bible - New American Bible Revised Edition. Saint Mary's Press, 2018.

(ISBN: 978-1-59982-925-8)

Second Semester

New Testament/Christian Scriptures

0.5 credit

Required

The study of the Christian Scriptures is centered on the Gospels as primary sources for our understanding of Jesus Christ. This course introduces the Gospels as the proclamation of the Good News of Jesus Christ – the Incarnation and Full Revelation. The World of Christ – the history, culture, political and religious context is studied. Christ's birth, life, teaching, and preaching - central to the Gospels is also reviewed. In addition, this course provides a contextual analysis of the Synoptic Gospels and the Gospel of John. Students come to know Jesus as the Suffering Servant, the Teacher, the Healer, the Savior, and the Word of God. An objective of this course is to inform the heart as well as the intellect so that students may grow in their knowledge, understanding and, love of Jesus Christ as his Disciples.

Texts: *Living in Christ 2nd Edition: The Living Word, The Revelation of God's Love*. Saint Mary's Press, 2015. (ISBN: 978-1-59982-429-1)
The Catholic Youth Bible - New American Bible Revised Edition. Saint Mary's Press, 2018. (ISBN: 978-1-59982-925-8)

120 Theology II – Encountering Christ

0.5 credit

Required

Christianity is not a set of ideas, but an encounter with a Person, Jesus Christ. This course will do four things. First, it will give students depth of understanding regarding who Jesus is, how his Paschal Mystery is our salvation, and how the Church is his Body on earth, continuing his Incarnate presence. Second, it will address basic human questions (Who am I? Why do I exist? Does God exist? Does life have meaning?) through the deepest answer, the Person of Jesus. Third, it will attempt to show the beauty of Jesus and of following him, so that students have the opportunity to fall in love with him. Lastly, it will present the Sacraments as the primary means set up by Christ to draw us into the life of the Trinity as sons and daughters in the Son.

130 Theology III – Life in Christ / Social Justice

First Semester

Life in Christ

0.5 credit

Required

Living in Christ requires not just his invitation and initiative towards us, but also our response with all of our life. We are able to respond to him through living the life that he has modeled for us and which is borne to us in the Catholic Church. In this class students will explore what this life *is*. We will first examine the fundamental understanding of “being fully alive” that the Church holds and contrast this with other current possibilities. Then we will examine closely the particulars of the life of virtue, by which we imitate the *Logos* through whom we were created and who now we follow as Lord.

Second Semester

Catholic Social Justice

0.5 credit

Required

This course provides students with an overview and a foundation of Catholic Social Teaching. Built on the life, words and teaching of Jesus Christ, it is rooted in Scripture and the Covenant between God and his Chosen People and the teachings of the Hebrew prophets who expressed God's special love for the poor and marginalized. Christ-centered, this course presents the social teaching of the Catholic Church as an essential component of Catholic faith tradition. Students will study justice as a virtue, an overview of the types of justice, biblical roots of justice, noteworthy personalities and Church documents related to justice, the distinctions between charity & justice work, and the principles of Catholic Social Justice as outlined by the American Catholic Bishops. This course also provides an opportunity for students to recognize, analyze, and evaluate the scope and causes of social justice issues in the contemporary world – applying Catholic teaching as a response to these life issues. The key theme taught throughout this course is the *fundamental dignity of all human beings made in God's image and likeness and the profound respect for human life*. This is a semester course and half of the Junior Theology credit.

Text: *Learning & Living Justice: Catholic Social Teaching*. Ave Maria Press, 2007. (ISBN 10: 1-59471-102-X; ISBN 13: 978-1-59471-102-2)

140 Theology IV – World Religions / Vocations

First Semester

World Religions

0.5 credit

Required

The first semester of Senior Theology is a comparative survey of the world's great religious traditions. Students are introduced to the importance that religion plays in the modern world; they will review the Catholic understanding, as expressed through the documents of the Second Vatican Council. The course includes a general survey of the Eastern religions of Hinduism (with a quick reference to Jainism and Sikhism), Buddhism, Taoism/Confucianism and Zen Buddhism; these are followed by a discussion about the 'rise of monotheism' and the move towards a more Western sensibility. The course wraps up with a focus on Judaism and Islam – each reviewed in their historical development and in light of their relation to Christianity.

Text: *World Religions: A Voyage of Discovery*. Saint Mary's Press, 2015. (ISBN: 978-1-59982-329-4)

Various handouts and articles.

Second Semester

Catholic Spirituality in the Modern World

0.5 credit

Required

The second semester of senior Theology begins with a look at contemporary Christology centering on the Incarnation as it evolved from the early Church and Nicene Creed to the present day. There is reading/discussion of 'The Sermon on the Mount' as the Radical Gospel of the Christ. Also included is a discussion of prayer, with a special emphasis on the Liturgy of the Hours and the Contemplative Tradition. A detailed overview of Church History leads up to an in-depth study of the Vatican II Council, including some readings and review of *the Pastoral Constitution of the Church in the Modern World*. The course concludes with a summary of Vocations, reviewing the traditional Religious/Married/Single life, but with a concentration upon Discipleship, focusing upon how Catholic education, and SMHS in particular, prepares young men and women to take ownership of their religious teachings in the Catholic Tradition.

Text: *Christian Vocations*. Harcourt Religion Publishers, 2001. (ISBN: 0-15-950712-X)

Various handout and articles.

145 Campus Ministry

1.0 credit

Elective

Prerequisite: Approval by the SMHS Chaplain and the Director of Campus Ministry

Servant leadership, following the example of Jesus Christ, is the hallmark of Campus Ministry. Students have the opportunity to develop, along with a community peers, a more active faith life in the SMHS community, in the Church, and, in the world. Campus Ministry provides students with opportunities to grow in their faith by getting involved in outreach projects, and by assuming a more vital role in school-wide ministry. Campus ministers play a key role in the development and facilitation of all the school retreats. They also assist with school liturgies, prayer and reconciliation services. Campus Ministry students help design other activities in order to enhance the spiritual life and well-being of the students and faculty at St. Mary's High School. Campus Ministry is an active, hands-on experience for students who want to grow in their own spirituality and to help others to do the same. Grading is pass/fail.

Text: Related articles and resources from contemporary Catholic thought as needed for study and reflection on a variety of topics.

151 Freshman Community Outreach

0.5 credit

Required

Credit is granted for having a minimum of 25 hours of Community Service by April 30th of freshman year. Grading is pass/fail.

152 Sophomore Community Outreach

0.5 credit

Required

Credit is granted for having a minimum of 75 hours of Community Service by April 30th of sophomore year. Grading is pass/fail.

153 Junior Community Outreach

0.5 credit

Required

Credit is granted for having a minimum of 125 hours of Community Service by April 30th of junior year. Grading is pass/fail.

154 Senior Community Outreach

0.5 credit

Required

Credit is granted for having a minimum of 150 hours of Community Service by April 30th of senior year. Grading is pass/fail.

ENGLISH

210 English I

1.0 credit

Required

English I is designed to give 9th grade students the opportunity to develop their vocabulary, writing and critical thinking skills. Grammar and basic writing skills are studied. Students study the various elements of literary genres including short story, novel, poetry, nonfiction, classical literature, and Shakespearean and modern drama. Strong emphasis is placed on writing in all areas of the course. Students may be assigned summer reading to complete before entering English I.

Texts: *Prentice Hall Literature: Language and Literacy*. Pearson Education, 2010.

(ISBN 10: 0-13-366639-5; ISBN 13: 978-0-13-366639-7)

Warriner's English Grammar and Composition. Harcourt Brace Jovanovich, 1986.

Vocabulary Workshop, Level D. Sadlier-Oxford.

Novels & Plays Selected From:

Homer. *The Odyssey*

Orwell, George. *Animal Farm* (ISBN: 978-0-451-52634-2)

Shakespeare, William. *The Tragedy of Romeo and Juliet* (ISBN: 978-0-142-41950-2)

Lee, Harper. *To Kill a Mockingbird* (ISBN: 978-0-446-31078-9)

211 English IA

1.0 credit

Prerequisite: Admissions Committee Approval

Advanced English I is designed to give 9th grade students with excellent basic English skills the opportunity to develop their writing and critical thinking skills, further expand their vocabularies, and increase their appreciation of literature. More extensive writing is done in English I Advanced than in English I. English I Advanced is a Pre-Advanced Placement Class, which, with English II Advanced, prepares students for AP English courses. Students are required to complete summer reading.

Texts: *Prentice Hall Literature: Language and Literacy*. Pearson Education, 2010.

(ISBN 10: 0-13-366639-5; ISBN 13: 978-0-13-366639-7)

Warriner's English Grammar and Composition. Harcourt Brace Jovanovich, 1986.

Vocabulary Workshop, Level D. Sadlier-Oxford.

Novels & Plays Selected From:

Dickens, Charles. *A Tale of Two Cities* (ISBN: 0-13-435509-1)

Dickens, Charles. *Great Expectations* (ISBN: 0-553-21342-3)

Golding, William. *Lord of the Flies* (ISBN: 978-0-140-28333-4)

Homer. *The Odyssey* (ISBN: 978-1-593-08009-9)

Lee, Harper. *To Kill a Mockingbird* (ISBN: 978-0-446-31078-9)

Shakespeare, William. *The Tragedy of Romeo and Juliet* (ISBN: 978-0-142-41950-2)

Sophocles. *Antigone* (ISBN: 0-486-27804-2)

220 English II

1.0 credit

Required

Prerequisite: English I (210) or Department Approval

Students engage in the reading of works from a variety of places, time periods, and perspectives. Through the use of a variety of texts and supplemental works (novels, short stories, poems, articles, etc.), students further develop their ability to interpret and analyze literary and informational selections. Students continue to develop more precise writing skills. Students will write literary

analyses, arguments, and narrative pieces, focusing on the skills of topic development, organization, diction/syntax, and the use of textual evidence. Grammar is reviewed to emphasize the finer points of mechanics and usage, and vocabulary is drawn from both readings and from other sources. A research paper will be required; lessons to prepare students for this cumulative project will emphasize selecting strong sources, organizing information, and citing sources correctly. Summer reading is assigned.

Text: *Mirrors & Windows: Connecting with Literature, Level V.* EMC Publishing LLC, 2016.
(ISBN: 978-0-82197-396-7)

Warriner's English Grammar and Composition. Harcourt Brace Jovanovich, 1986.
Vocabulary Workshop, Level E Sadlier-Oxford.

Novels & Plays Selected From:

Bradbury, Ray. *Fahrenheit 451* (ISBN: 978-1-4516-7331-9)
Gaines, Ernest J. *A Lesson Before Dying* (ISBN: 978-0-375-70270-9)
Shakespeare, William. *The Tragedy of Julius Caesar* (ISBN: 978-0-140-71468-5)
Sophocles. *Oedipus the King* (ISBN: 978-1-4165-0033-9)

221 English IIA (H)

1.0 credit

Honors

Prerequisite: B+ or above in English IA or A in English I; or Department Approval

The content of this honors' level course is based on world literature by a variety of writers from different time periods in history. World history lessons are integrated to provide a contextual framework to the literature covered. Students gain practice in writing and organizing ideas logically; the emphasis is on strong sentences, paragraphs, and essays to better prepare students for year. Essay types include persuasive, cause and effect, description, comparison and contrast, narrative, and expository. Vocabulary and grammar lessons are emphasized to enhance students' writing. A research paper will be required; lessons to prepare students for this cumulative project will emphasize selecting strong sources, organizing information, and citing sources correctly. Summer reading is assigned.

Text: *Mirrors & Windows: Connecting with Literature, Level V.* EMC Publishing LLC, 2016.
(ISBN: 978-0-82197-396-7)

Warriner's English Grammar and Composition. Harcourt Brace Jovanovich, 1986.
Vocabulary Workshop, Level E. Sadlier-Oxford.

Novels & Plays Selected From:

Alexie, Sherman. *The Absolutely True Diary of a Part-Time Indian* (ISBN: 978-0-316-01369-7)
Fitzgerald, F. Scott. *The Great Gatsby* (ISBN: 0-673-58348-1)
Knowles, John. *A Separate Peace* (ISBN 10: 0-7432-5397-3; ISBN 13: 978-0-7432-5397-0)
Macchiavelli, Niccolo. *The Prince* (ISBN: 0-14-044752-0)
Martel, Yann. *Life of Pi* (ISBN: 0-15-100811-6)
Miller, Arthur. *Death of a Salesman* (ISBN: 0-14-048134-6)
Shakespeare, William. *The Tragedy of Julius Caesar* (ISBN: 978-0-140-71468-5)
Sophocles. *Oedipus the King* (ISBN: 978-1-4165-0033-9)
Tan, Amy. *The Joy Luck Club* (ISBN: 978-0-14-303809-2)
Tolkien, J.R.R. *The Hobbit* (ISBN 13: 978-0-618-15082-3)

225 Writing Lab/Speech

0.5 credit

No Longer Offered

Required during sophomore year.

This course covers both speech and writing lab. Students will have the opportunity to learn basic skills needed in a variety of public speaking assignments. Students will learn the essential parts of speech,

delivery styles, effectiveness of language, gestures, and organization techniques, including both delivery and proper skills on public speaking.

The writing lab aspect of this class will focus on the improvement of writing skills. Students will gain practice in writing and organizing ideas logically. The emphasis will be on strong sentences, paragraphs and essays. Essay types will include, but not limited to persuasive, cause and effect, descriptive, comparison and contrast, narrative, and expository. In addition, students will write a research paper whose emphasis will include selecting strong sources, organizing information, citing sources correctly and adequately, and writing a well -organized clearly written paper.

Text: *Speech for Effective Communication*. Holt, Rinehart and Winston, 1994. (ISBN: 0-03-097525-5)

230 English III

1.0 credit

Required

Prerequisite: English II (220) or Department Approval

As a survey of American literature, this course introduces the student to the inherent personalities and philosophies of American literature. Other areas of study include vocabulary and grammar review as well as a variety of literary genres. Composition and literary analysis compose the writing aspect of junior English. This course assumes a solid foundation from the first two years of English and expands those skills. Students are assigned summer reading.

Texts: *Glencoe Literature: American Literature*. McGraw-Hill Companies, 2009.
(ISBN: 978-0-07-877980-0)

Warriner's English Grammar and Composition. Harcourt Brace Jovanovich, 1986.

Vocabulary Workshop, Level F. Sadlier-Oxford.

Novels & Plays Selected From:

Hawthorne, Nathaniel. *The Scarlet Letter* (ISBN 10: 0-486-28048-9; ISBN 13: 978-0-486-28048-6)

Hemingway, Ernest. *A Farewell to Arms* (ISBN: 0-684-80146-9)

Fitzgerald, F. Scott. *The Great Gatsby* (ISBN: 0-673-58348-1)

Miller, Arthur. *The Crucible* (ISBN: 014-048-138-9)

Steinbeck, John. *Of Mice and Men* (ISBN: 978-0-14-017739-8)

Vonnegut, Kurt. *Cat's Cradle* (ISBN: 978-0-385-33348-1)

231 AP English Language and Composition

1.0 credit

Prerequisite: B+ or above in English II(A) (221) or A in English II (220) or Department Approval

AP English Language and Composition is a rigorous writing class designed to further develop the student's skills in analyzing the rhetoric of non-fiction prose in both formal and informal essays. Writing style is emphasized in skill demonstration including the use of low, middle and high style language; sentence variety – by length and type, introductory clauses and phrases, and more sophisticated structure, including compound, complex, and compound-complex sentences. At the conclusion of the course, students will be able to analyze and write about non-fiction passages. Students who take the College Board's AP English Language and Composition Exam (a skills based exam) can earn three to six hours of college credit. An AP English Language and Composition Practice Exam is taken in late summer and another in late April to prepare students for the rigors of the real exam, usually scheduled on the second or third Wednesday of May. Students must complete the summer reading assignment.

Texts: *The Language of Composition: Reading, Writing, Rhetoric*. Bedford/St. Martins, 2008.
(ISBN 10: 0-312-45094-X; ISBN 13: 978-0-312-45094-6)

Vocabulary Workshop, Level F Sadlier-Oxford.

Novels, Plays & Memoirs Selected From:

Miller, Arthur. *The Crucible* (ISBN: 978-0-140-25909-4)

O'Brien, Tim. *The Things They Carried* (ISBN: 978-0-618-70641-9)

Orwell, George. *1984* (ISBN: 978-0-582-06018-0)

Twain, Mark. *Huckleberry Finn* (ISBN: 978-0-470-15287-4)

Wiesel, Elie. *Night* (ISBN: 978-0-374-50001-6)

236 Yearbook

1.0 credit

Elective

Prerequisite: 3.3 or above cumulative GPA, a B or above in English courses, and Department Approval

This course produces St. Mary's High School yearbook. Students learn computerized layout and are responsible for their own photography. Evaluation is based on meeting deadlines, copy writing, editing, and cooperation. Although the class is offered to juniors and seniors, the editor(s) is selected by level of knowledge and work ethic. Juniors are allowed to repeat this course in their senior year. If you have an interest in capturing and saving high school memories by taking pictures and writing captions, this is the course for you! Entrance is by application and teacher recommendation.

237 Journalism: Newspaper

1.0 credit

Elective

Prerequisite: 3.0 or above cumulative GPA, a B or above in English courses, and Advisor Approval

This course involves the production of the school newspaper, *The Jolly Roger*. An emphasis is placed on journalistic writing, following correct lay-out procedures, conducting interviews correctly and photography. Students are responsible for writing, proofreading, photography, meeting deadlines and the fiscal health of the paper. Although this course is offered to juniors and seniors, juniors are allowed to repeat it in their senior year. Interested students need to see the newspaper advisor for an application.

240 English IV

1.0 credit

Required

Prerequisite: English III (230) or Department Approval

This course is designed to prepare seniors for college level literature courses by introducing them to the language of modern literary theory and criticism and to cross-disciplinary and transcultural perspectives. It is a general introduction to the major ideas, themes, and writers of British and Classical Western literature. Semester one may include such authors as Chaucer, Spenser, Shakespeare, Donne, Johnson, Milton, Dryden, Pope, Swift, Wordsworth, Keats, Tennyson, and Browning. Second semester will include readings from the late nineteenth century to the twentieth century, including such authors as Woolf, Shaw, Eliot, Auden, Thomas, Orwell, Joyce, and Lawrence. Students are required to complete a summer reading assignment.

Text: *Prentice Hall Literature: The British Tradition*. Pearson Education, 2002.
(ISBN: 0-13-054793-x)

Warriner's English Grammar and Composition. Harcourt Brace Jovanovich, 1986.

Vocabulary Workshop, Level G Sadlier-Oxford.

Novels & Plays Selected From:

Anonymous. *Beowulf* (ISBN: 0-14-044268-5)

Huxley, Aldous. *Brave New World* (ISBN: 978-0-06-085052-4)

Marlowe, Christopher. *Dr. Faustus* (ISBN 10: 0-486-28208-2; ISBN 13: 978-0-486-28208-4)

Shakespeare, William. *Hamlet* (ISBN: 978-0-7434-7712-3)

Shakespeare, William. *Macbeth* (ISBN: 978-0-7434-7710-9)

Shelley, Mary. *Frankenstein* (ISBN: 0-486-28211-2)

241 AP English Literature & Composition

1.0 credit

Prerequisite: B+ or above in AP Language and Composition (231) or A in American Literature (230), and B+ in Writing Lab, or Department Approval

This course emphasizes the development of skills in the careful reading and critical analysis of imaginative literature. Students will engage in an intensive, college-level study of literary works spanning several genres and periods and should be prepared to devote time and energy required to complete a rigorous and demanding course. Students will produce written responses based on the experience, interpretation, and evaluation of selected works of recognized literary merit. Through the close reading of these selected texts, students will deepen their understanding of the ways writers use language to provide a profound meaning beyond the superficial. Students who take the College Board's AP Literature & Composition exam may receive three to six semester hours of college credit. Students are required to complete a summer reading assignment.

Text: *Perrine's Literature: Structure, Sound, and Sense 8th Edition*. Earl McPeck Publishing, 2002. (ISBN: 0-15-507494-6)

Vocabulary Workshop, Level H. Sadlier-Oxford.

Novels, Plays and Memoirs Selected From:

Austen, Jane. *Pride and Prejudice* (ISBN 10: 0-486-28473-5; ISBN 13: 978-0-486-28473-6)

Bronte, Charlotte. *Jane Eyre* (ISBN: 978-0-451-53091-2)

Conrad, Joseph. *Heart of Darkness / The Secret Sharer* (ISBN: 0-451-52657-0)

Faulkner, William. *Intruder in the Dust* (ISBN: 978-0-099-74031-5)

Fitzgerald, F. Scott. *The Great Gatsby* (ISBN: 0-673-58348-1)

Hansberry, Lorraine. *A Raisin in the Sun* (ISBN: 978-0-413-76240-5)

Hemingway, Ernest. *The Sun Also Rises* (ISBN 10: 0-7432-9733-4; ISBN 13: 978-0-7432-9733-2)

Hurston, Zora Neale. *Their Eyes Were Watching God* (ISBN: 978-0-061-47037-0)

Morrison, Toni. *Beloved* (ISBN: 978-0-330-30537-2)

Shakespeare, William. *A Midsummer Night's Dream* (ISBN: 978-0-133-55587-5)

Shakespeare, William. *Hamlet with Related Readings* (ISBN: 0-17-604813-8)

Shakespeare, William. *King Lear with Related Readings* (ISBN: 0-17-606621-7)

Shakespeare, William. *Othello* (ISBN: 978-0-7434-7755-0)

Shelley, Mary. *Frankenstein* (ISBN: 978-0-394-84827-3)

Silko, Leslie Marmon. *Ceremony* (ISBN: 978-0-14-310491-9)

Twain, Mark. *Adventures of Huckleberry Finn* (ISBN: 978-0-451-53094-3)

Wharton, Edith. *Ethan Frome* (ISBN: 978-0-142-43780-3)

Wilde, Oscar. *The Importance of Being Earnest* (ISBN: 978-0-380-01277-0)

949 Speech

0.5 credit

Required

Students are introduced to public speaking as an important component of their academic, work, and social lives. They study public speaking occasions and develop skills as critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasions), read and listen to models of speeches, and prepare and present their own speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback.

Text: *Speech for Effective Communication*. Holt, Rinehart and Winston, 1994.
(ISBN: 0-03-097525-5)

MATHEMATICS

311 Foundations in Algebra – Year 1

1.0 credit

Prerequisite: Admissions Committee Recommendation.

This is the first course in a two-course sequence covering the contents of Math 314 over a two-year period. The sequence is for students who need extra time to master the foundations of algebra. Assessment includes fall and spring semester exams. See calculator policy letter for calculator requirement.

Text: Larson et al. *Algebra I*. McDougal Littell, 2004. (ISBN: 0-618-25018-2)

312 Foundations of Algebra – Year 2

1.0 credit

Prerequisite: Math 311

This is the second course in a two-course sequence covering the contents of Math 314 over a two-year period. The sequence is for students who need extra time to master the foundations of algebra. Assessment includes fall and spring semester exams. See calculator policy letter for calculator requirement.

Text: Larson et al. *Algebra I*. McDougal Littell, 2004. (ISBN: 0-618-25018-2)

314 Algebra I

1.0 credit

Required

Prerequisite: Admissions Committee Recommendation

This is the middle of three first-year algebra options, intended for students with good pre-algebra skills. Many students who take this course have studied algebra in middle school. Consistent with the standards published by the National Council of Teachers of Mathematics (NCTM), the focus is on developing analytical reasoning skills as well as sound computational proficiency. Assessment includes fall and spring semester exams. See calculator policy letter for calculator requirement.

Text: Larson et al. *Algebra I*. McDougal Littell, 2004. (ISBN: 0-618-25018-2)

315 Algebra I Analysis

1.0 credit

Prerequisite: Admissions Committee Recommendation

This is the highest of three first-year algebra options, intended for students with solid pre-algebra skills and the motivation to challenge themselves in our most demanding math sequence. Many students who take this course have done well in a middle school algebra course. This course introduces concepts at a more abstract level than Math 314, and includes more sophisticated examples and problems. Consistent with the standards published by the National Council of Teachers of Mathematics (NCTM), the focus is on developing analytical reasoning skills as well as sound computational proficiency. Assessment includes fall and spring semester exams. See calculator policy letter for calculator requirement.

Text: Larson et al. *Algebra I*. McDougal Littell, 2004. (ISBN: 0-618-25018-2)

319 Accelerated Geometry – One Semester

1.0 credit

Prerequisite: Algebra I Analysis or Department Approval

This modern course presents the fundamentals of geometry in both traditional (Euclidean) and analytic (coordinate-based) settings. The course introduces students to standard principles of logic and proof, but focuses as well on developing geometric intuition. Throughout the course, examples and problems reinforce skills from first-year algebra. Assessment includes a final exam. See calculator policy letter for calculator requirement.

Text: Larson et al. *Geometry*. McDougal Littell, 2004. (ISBN 10: 0-395-93777-9; ISBN 13: 978-0-395-93777-8)

320 Geometry

1.0 credit

Required

Prerequisite: Any Algebra I sequence.

This modern course presents the fundamentals of geometry in both traditional (Euclidean) and analytic (coordinate-based) settings. The course introduces students to standard principles of logic and proof, but focuses as well on developing geometric intuition. Throughout the course, examples and problems reinforce skills from first-year algebra. Assessment includes fall and spring semester exams. See calculator policy letter for calculator requirement.

Text: Larson et al. *Geometry*. McDougal Littell, 2004. (ISBN 10: 0-395-93777-9; ISBN 13: 978-0-395-93777-8)

321 Algebra II

1.0 credit

Required

Prerequisite: Geometry (319) or (320)

This course is one of two second-year algebra options, intended for students who have successfully completed Math 314 or the equivalent. Content is similar to Math 322 (see course description below) and includes a basic introduction to trigonometric functions and associated concepts. Treatment of most topics is less abstract in this course than in Math 322. Assessment includes fall and spring semester exams. See calculator policy letter for calculator requirement.

Text: Larson et al. *Algebra 2*. McDougal Littell, 2004. (ISBN: 0-618-25020-4)

322 Algebra II Analysis (H)

1.0 credit

Honors

Prerequisite: Algebra I Analysis (315) and Geometry (319) or (320); or Department Approval.

This is the more advanced of two second-year algebra options, intended for students with the skills and motivation to challenge themselves in our most demanding math sequence. This course treats Algebra II concepts at a more abstract level than Math 321, and includes more sophisticated examples and problems. Treatment of trigonometry is more extensive in this course than in Math 321. Other topics include linear systems; polynomials and polynomial equations; radical expressions and equations; exponential, logarithmic, and rational functions; techniques for solving quadratic equations (factoring, completing the square, and the quadratic formula); laws of exponents; and complex numbers. Assessment includes fall and spring semester exams. See calculator policy letter for calculator requirement.

Text: Holliday, Cuevas, et al. *Algebra 2*. Glencoe-McGraw Hill, 2005. (ISBN: 0-07-865609-5)

331 Advanced Algebra & Trigonometry**1.0 credit***Prerequisite: Algebra II (321) or Algebra II Analysis (322)*

This course provides a bridge between second-year algebra and college-level mathematics. The course focuses on analytic geometry, algebra, functions, and trigonometry, and revisits many Algebra II topics on a deeper level. The course also includes a sampling of topics in probability, statistics, and discrete mathematics. Treatment of topics in algebra and trigonometry is less abstract than in Math 336. Assessment includes fall and spring semester exams. See calculator policy letter for calculator requirement.

Text: Demana et al, *Precalculus*. Pearson Education, 2015. (ISBN 10: 0-13-353919-9; ISBN 13: 978-0-13-353919-6)

336 Pre-Calculus (H)**1.0 credit****Honors***Prerequisite: Algebra II Analysis (322) or Department Approval*

This course focuses on the topics and skills necessary to excel in college mathematics courses intended for science and engineering majors. Consistent with that focus, the course revisits many topics covered in Algebra II Analysis at a deeper level of abstraction and generality. A primary theme is acquiring a sound geometric and algebraic understanding of the concept of function. Topics include compositions and transformations, analytic geometry, circular trigonometric functions, polynomial equations, exponential and logarithmic functions, and conic sections. The course introduces the derivative, including simple applications. Assessment includes fall and spring semester exams. See calculator policy letter for calculator requirement.

Text: Demana et al, *Precalculus*. Pearson Education, 2015. (ISBN 10: 0-13-353919-9; ISBN 13: 978-0-13-353919-6)

340 AP Calculus (AB)**1.0 credit***Prerequisite: Pre-Calculus (336), or Department Approval*

This course prepares students to take the Calculus AB Advanced Placement (AP) exam. It focuses on the mathematical tools needed to analyze quantities that change at variable rates. The course reviews concepts encountered in earlier courses and applies these concepts to various types of functions to determine their derivatives and integrals. Topics include properties of limits, derivatives, and the definite and indefinite integrals; exponential functions and the natural logarithm, including growth/decay applications; area under a curve, volumes of revolution, and integration techniques; the calculus of motion; and relevant special topics. Examples using the TI-83/TI-84 series-graphing calculator supplement the mathematical analysis. Assessment includes a fall exam. The AP Calculus exam is taken in lieu of a spring semester exam. See calculator policy letter for calculator requirement.

Text: Foerster. *Calculus: Concepts and Applications*. Key Curriculum Press, 1998. (ISBN: 1-55953-117-7)

343 Statistics

1.0 credit

Prerequisite: Algebra II or equivalent, open to Seniors only.

This course focuses on the major concepts and tools used to collect, analyze and draw conclusions from data. Students study all topics in the AP curriculum; motivated students completing this course will be prepared to take the AP test. Key topics include techniques used to recognize patterns and departures from patterns; planning a study with emphasis on data collection, modeling and validity of conjectures; probability; statistical inference; confidence levels; significance tests and errors; and distributions. The emphasis is on active learning and interdisciplinary connections. Assessment includes fall and springs semester exams. See calculator policy letter for calculator requirement.

Text: Yates et al. *The Practice of Statistics, 3rd edition*. W.H. Freeman and Company, 2008.
(ISBN 10: 0-716-77309-0; ISBN 13: 978-0-71-677309-2)

FOREIGN LANGUAGE

415 Spanish I

1.0 credit

Required

Spanish I introduces the student to spoken and written Spanish as well as to the many cultures of the Spanish speaking world. A basic vocabulary of 1200-1500 words is used. The emphasis in the first year is on comprehension, speech, written communication and culture.

Text: *¡Exprésate! Level I.* Holt, Rinehart & Winston, 2006. (ISBN 10: 0-03-067678-9; ISBN 13: 978-0-030-67678-9)

Additional practice and activity worksheets are provided.

425 Spanish II

1.0 credit

Elective

Prerequisite: Grade of B or better in Spanish I (415) or Teacher Approval

Spanish II continues to develop the necessary skills in reading, conversation, writing and listening. Lessons are taught primarily in Spanish. Students learn about various cultures of people who speak Spanish, focusing on Mexico, Spain and the United States. Spanish students are encouraged to be sensitive to differences in how people think, live and behave. Audio/Visual materials are used.

Text: *¡Exprésate! Level II.* Holt, Rinehart & Winston, 2006. (ISBN 10: 0-03-071271-8; ISBN 13: 978-0-03-071271-5)

Additional practice and activity worksheets are provided.

435 Spanish III

1.0 credit

Elective

Prerequisite: Grade of B in Spanish II (425) or Teacher Approval

Spanish III is designed for students who have successfully completed Level II Spanish. Students continue to advance their skills by more interactively using their grammar, writing, comprehension, and speaking skills. Less emphasis is placed on using the assigned text in place of using skills previously learned in more spontaneous ways such as daily conversation, free form writing and direct application of the language. Outside resources are utilized such as web-based exercises, voice recording software and cultural awareness via the study of Spanish songs and contemporary artists.

Text: *¡Exprésate! Level III.* Holt, Rinehart & Winston, 2006. (ISBN: 0-03-071272-6)

Additional practice and activity worksheets are provided.

445 Spanish IV

1.0 credit

Elective

Prerequisite: Grade of B in Spanish III (435) or Teacher Approval

Spanish IV is a fast-paced course focusing on necessary pre-AP skill sets for students who have successfully completed Spanish III. Major emphasis is placed on developing comprehension, refining writing skills, reviewing previously acquired grammatical concepts, and introducing new, more complex structures. Reading includes excerpts from Spanish literature.

Text: *¡Ven Conmigo! Nuevas Vistas.* Holt, Rinehart & Winston, 2003. (ISBN: 0-03-055213-3)

Additional practice and activity worksheets are provided.

455 AP Spanish Language**1.0 credit****Not Offered in 2019-2020**

Prerequisite: Grade of B in Spanish III (435) or Teacher Approval

The AP Spanish language course covers the equivalent of a third-year college course in advanced Spanish writing and conversation. It encompasses aural/oral skills, reading comprehension, grammar and composition. The course goal is for the student to prepare to take the Advanced Placement College Board Exam.

Students taking AP Spanish have the following objectives: 1) ability to comprehend formal and informal spoken Spanish; 2) acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of newspaper and magazine articles, as well as of modern literature in Spanish; 3) ability to write in a variety of modes, including narrative (personal experience); expository (essay, paper, biographical incidents); persuasive (editorial); and imaginative (story, poem). 4) ability to express ideas orally with accuracy and fluency.

Text: *Abriendo Paso: Gramática*. Prentice Hall, 2000. (ISBN: 0-8384-2624-7)

Abriendo Paso: Lectura. Prentice Hall, 2001. (ISBN: 0-8384-17744)

Additional Spanish novels TBD.

418 French I**1.0 credit****Required**

Student is introduced to the basic skills of listening, speaking, reading, and writing in French. The course includes basic situations of traveling, asking directions, ordering, and talking about yourself as well as learning about French speaking cultures. Paris is the cultural focus. Students are expected to learn cultural differences and similarities and an appreciation for another culture as well as their own.

Text: *T'es branché? 1st Edition*. EMC Publishing, 2019. (ISBN: 978-1-53381-628-3)

428 French II**1.0 credit****Elective**

Prerequisite: Grade of B in French I (418) or Teacher Approval

French II builds on the skills of speaking, listening, reading, and writing from level I. There is an emphasis on verbs, past and present tenses. Lessons are taught primarily in French. Students learn some history and culture of French speaking countries and comparisons with their own culture. Everyday vocabulary and situations are the basis for verbal interaction.

Text: *T'es branché? 2nd Edition*. EMC Publishing, 2019. (ISBN: 978-1-53381-629-0)

438 French III**1.0 credit****Elective**

Prerequisite: Grade of B in French II (428) or Teacher Approval

French III continues developing reading, writing, listening and speaking skills. Emphasis is on oral communication as well as vocabulary and grammar development through various activities and texts. Contemporary issues, art, history, and music will be explored by class interests. More complex grammar structures are introduced.

Text: *Discovering French, Level III*. McDougal Littell, 2004. (ISBN 10: 0-395-87486-6; ISBN 13: 978-0-395-87486-8)

448 French IV

1.0 credit

Elective

Prerequisite: Grade of B in French III (438) or Teacher Approval

French IV continues developing reading, writing, listening and speaking skills. Emphasis is on oral communication as well as vocabulary and grammar development through various activities and texts. Contemporary issues, art, history, and music will be explored by class interests. Grammar structures will be reinforced and built upon. Students will read *Le Petit Prince*.

Text: Additional college level texts and resources are provided.

SCIENCE

510 Science

1.0 credit

This course lays a solid foundation in the physical and earth sciences, developing scientific literacy in all students. Students are prepared to use scientific principles and processes appropriately in making personal decisions; to experience the richness and excitement of knowing about and understanding the natural world; and how to engage intelligently in public discourse and debate about matters of scientific and technological concerns.

Text: *Physical Science with Earth and Space Science*. Holt, Reinhart and Winston, 2008.
(ISBN 10: 0-03-067213-9; ISBN 13: 978-0-03-067213-2)

520 Biology

1.0 credit

Required

Prerequisite: Science (510) or Admissions Committee Approval

Biology provides the student with a general introduction to life around him in all the areas of biology, including lower animal biology, vertebrates, cell biology, biochemistry, and genetics. The course includes lectures and lab work in the classroom. The goal of this course is to prepare students for college work in biology as well as everyday life. Organisms to be dissected are frogs, fish and crawfish.

Text: *Modern Biology*. Holt, Reinhart and Winston, 2002. (ISBN: 0-03-056541-3)

521 AP Biology

1.0 credit

Prerequisite: Department Approval, B or higher in Chemistry II (534) or AP Chemistry (532), and B or higher in Biology (520).

AP Biology is a course designed to afford high school students the potential to gain college credit and/or advanced placement above the introductory course in the college they attend. Students will gain an understanding of advanced concepts associated with molecules and cells, genetics and evolution, and organisms and populations. An additional goal will be to improve individual laboratory skills and establish advance understanding of scientific methodology, research technology and technique while preparing for the AP Biology exam. Success in this course will depend on individual motivation and organization, ability to read for comprehension, and ability to scientifically communicate in writing.

Text: Reece, et al. *Campbell Biology, 10th edition*. Pearson Education, 2014. (ISBN: 978-0-321-77565-8)

530 Applied Chemistry

1.0 credit

Prerequisite: Biology (520)

This course is not a college preparatory course. The content covers the basic concepts of chemistry including periodic table, chemical equations and nomenclature, atomic structure, states of matter through practical applications. Throughout the course, usefulness and application of chemistry in everyday life is stressed. Large and small labs are an integral part of the course and hands-on activities are frequent.

Texts: Addison-Wesley. *Chemistry, 5th Edition*. Prentice Hall, 2000. (ISBN: 0-201-32142-4)

531 Chemistry**1.0 credit**

Prerequisite: Biology (520) and Algebra I (312 or 314 or 315)

This course is a college preparatory course, which covers matter and energy, atomic structure, bonding, the periodic table, mole concept, and the reactions, names and formulas of ionic and molecular compounds, Kinetic Theory, Gas Laws, and Thermo Chemistry. Large and small-scale labs are used with each chapter to help the students visualize and grasp abstract concepts.

Texts: Addison-Wesley. *Chemistry, 5th Edition*. Prentice Hall, 2000. (ISBN: 0-201-32142-4)

Holt McDougal. *Modern Chemistry*. Houghton Mifflin Harcourt, 2015. (ISBN 978-0-547-58663-2)

533 Chemistry IA (H)**1.0 credit****Honors**

Prerequisite: Recommendation of the Biology teacher and A averages in science and math courses.

This course is an accelerated first year chemistry course which will cover the following topics: chemical formulas, equations and nomenclature, the periodic table, classification of matter, measurements in chemistry, stoichiometry, solutions, gases, thermodynamics, atomic structure, bonding, redox reactions and electrochemistry, kinetics and equilibrium, acid-bases, nuclear and organic chemistry. This is a lab course and requires 5 to 6 hours of homework per week. It is a rigorous fast-paced course for the student with a superior ability in problem solving and algebra. Successful completion of this course will prepare the students for AP Chemistry.

Texts: Addison-Wesley. *Chemistry, 5th Edition*. Prentice Hall, 2000. (ISBN: 0-201-32142-4)

Holt McDougal. *Modern Chemistry*. Houghton Mifflin Harcourt, 2015. (ISBN 978-0-547-58663-2)

534 Chemistry II**1.0 credit**

Prerequisite: Chemistry (531) with a B or better.

This course is a college preparatory course, which covers aqueous systems, rates of reaction equilibrium, acids and bases, oxidation-reduction reactions, electrochemistry, organic reactions and nuclear chemistry. Large and small-scale labs are used with each chapter to help the student visualize and grasp abstract concepts. Students who successfully complete this course with a B or better will be eligible to take AP Chemistry.

Texts: Addison-Wesley. *Chemistry, 5th Edition*. Prentice Hall, 2000. (ISBN: 0-201-32142-4)

Holt McDougal. *Modern Chemistry*. Houghton Mifflin Harcourt, 2015. (ISBN 978-0-547-58663-2)

532 AP Chemistry**1.0 credit**

Prerequisite: Department Approval and Chemistry IA (533)

AP Chemistry is designed to be taken only after the successful completion of a first course in high school chemistry. The course requires approximately 6 to 8 hours of homework per week. Topics studied include the structure of matter, kinetic theory of gases, chemical equilibrium, chemical kinetics, and concepts of thermodynamics. Problem solving is an integral part of the course; students will be expected to work independently and in group situations. Successful completion of the AP exam will earn advanced placement and up to 11 semester hours credit at most colleges and universities.

Texts: Brown, Lemay and Bursten. *Chemistry, the Central Science*. Pearson Education, 2006. (ISBN: 0-13-193719-7)

540 Anatomy/Physiology

1.0 credit

Prerequisite: Chemistry (531 or 533) and B average in previous science courses, or Department Approval.

Anatomy and Physiology is a challenging branch of Biology providing students with an understanding of the structure and functions of the human body. The emphasis of the course is familiarity with physiology in order to understand disease processes and homeostatic mechanisms. The laboratory exercises include a dissection, a student-learning guide, and coloring guides for students. A comprehensive final is not given.

Text: Tortora, Derrickson. *Introduction to the Human Body: The Essentials of Anatomy and Physiology*, 9th Edition. Biological Sciences Textbook, 2012. (ISBN: 978-0470-59892-4)

547 Physics

1.0 credit

Prerequisite: Chemistry (531 or 533), and Algebra II Analysis (322) or Advanced Algebra & Trigonometry (331), or Department Approval.

This is a college preparatory physics course that covers kinematics, force, universal gravitation, momentum and its conservation, work, energy, simple/complex machines, thermodynamics, kinetic theory, the states of matter, waves and sound. Labs are a regular part of the course. A firm understanding and ability to use formulas is essential. Problem solving is an integral part of the course; students will be expected to work independently and in-group situations.

Text: *Physics: Principles and Problems*. Glencoe-McGraw Hill, 1995. (ISBN: 0-02-826721-4)

560 Ecology

0.5 credit

Prerequisite: Biology (520); Juniors/Seniors only.

This course will cover the study of relationships between organisms and their environment. This includes the study of biotic and abiotic factors as well as biomes and ecosystems within the biosphere.

Text: *Environmental Science*. Addison Wesley Longman, 1999. (ISBN: 0-201-32133-5)

570 Environmental Biology

0.5 credit

Prerequisite: Biology (520); Juniors/Seniors only.

This course will cover the study of man's interaction with the environment. It will include the study of air, water and land pollution, as well as energy alternatives, resource depletion, global climate changes and population.

Text: *Environmental Science*. Addison Wesley Longman, 1999. (ISBN: 0-201-32133-5)

580 Nuclear Chemistry

0.5 credit

Prerequisite: Chemistry (531 or 533), Algebra II Analysis (322) or Advanced Trigonometry (331), and Department Approval

Nuclear Chemistry is the study of nuclear reactions, with an emphasis on their uses in chemistry and their effects on biological systems. This course will study the theory and practical applications including medical applications, fusion and fission in nuclear reactors and in nuclear weapons. The book, Full Body Burden, about Rocky Flats in Arvada, Co will be an integral part of the course. Labs

will include radon testing, use of a radiation detector to determine the difference between alpha, beta and gamma radiation, and a cloud chamber study. Chernobyl and Fukushima disasters will also be studied.

Text: Iverson, Kristen. *Full Body Burden: Growing Up in the Nuclear Shadow of Rocky Flats*. Random House Inc, 2013. (ISBN: 978-0-307-95565-4)

581 Microbiology

0.5 credit

Prerequisite: Chemistry (531 or 533)

Microbiology is the study of microorganisms, with an emphasis on classification of bacteria and their effects on the human body. The course will cover gram+ and gram – organisms and their cell walls. They will perform labs that would require culturing, isolating and identifying the organisms.

582 Marine Biology

0.5 credit

Prerequisite: Biology (520)

This course will investigate the physical characteristics of marine habitats and how they influence the living communities that inhabit them. It then will center on specific marine life groups, their structure and function, and their interdependence on each other and their environment. A common thread will be human interactions and the impact it has on marine ecosystems. Biology will be a prerequisite. Labs will include one or two dissections and various other labs that can be done in either the Biology or Chemistry Labs.

Text: *Marine Science*. McGraw-Hill Education, 2016. (ISBN: 978-0-02-142265-4)

SOCIAL STUDIES

610 World Geography

1.0 credit

Required

The goal of the course is to provide students with knowledge about the physical and human geography of our world. This course will enable the students to understand the inter-relatedness of the world's regions and cultures, and provide instruction and practice in developing basic map skills and other general social science skills. While investigating the physical and cultural geography of world areas, the five themes of geography and the Colorado State Geographical Standards will be emphasized. The ultimate goal of the course is to help students gain a global perspective on how people depend upon, adapt to, are affected by, and change the natural environment.

Text: Boehm, Richard G., Ph.D. *Geography, the Human and Physical World*. McGraw-Hill, 2018. (ISBN: 978-0-07-668046-7)

630 American History

1.0 credit

Required

This course is a general survey of American history. Material is covered chronologically and emphasis is placed on major periods and eras in our nation's history. Included among these are the review of the background period to the American Revolution, the Constitution, the Federalist Era, the Jeffersonian Era, Nationalism, Sectionalism, the Civil War, Reconstruction, the Gilded Age, the Progressive Era, World War I, the Post War Era, the Cold War, Vietnam, and the New World Order. Emphasis will be placed on critically analyzing and interpreting the developing political, economic, and social trends throughout our nation's history. This is accomplished through reading, critiquing, essay writing, projects, role playing, and discussion.

Text: *The Americans*. McDougal-Littell, 2005. (ISBN: 0-618-37719-0)

632 AP U.S. History

1.0 credit

Prerequisite: Social Studies Department Approval.

This is designed to be a college level course. It has the same basic coverage as the American History (630) survey but with more rigorous demands on the students in regard to the material. This course incorporates extensive analytical writing and the interpretation of primary documents. Students should expect considerable outside reading combined with the development of critical thinking skills for discussions, debates and role playing. One goal of the course will be to prepare class members to take the National Advanced Placement Examination. Success on the exam can lead to college credit.

Texts: *The American Pageant: A History of the Republic, 12th Edition*. Houghton Mifflin, 2002. (ISBN: 0-618-24732-7)

The American Spirit, Volume I: To 1877, 9th Edition. The Board of Trustees of Leland Stanford Jr. University and Trinity Partners, 1998. (ISBN: 0-395-87100-X)

The American Spirit, Volume II: Since 1865, 9th Edition. The Board of Trustees of Leland Stanford Jr. University and Trinity Partners, 1998. (ISBN: 0-395-87101-8)

636 American Government

1.0 credit

Required

Prerequisite: American History (630)

American Government will provide students the opportunity to analyze the political system of the United States. Students will study the input and output mechanisms of United States government. Input

mechanisms include parties, interest groups, the media, and election behavior of citizens. The institutions of the federal government to be studied are the Congress, Presidency, Bureaucracy, and Federal Courts. Students will analyze how the institutions interact with one another and their outputs in the form of statutes, regulations, precedents, and executive orders. Students will also learn about the constitutional framework of our political system, political behavior of citizens and how they choose to participate, and how they acquired their political beliefs. Students will become acquainted with theories explaining the behaviors of citizens, institutions, and groups. An in depth study of the American legal system will be included and students will participate in mock trials as attorneys, witnesses, and jurors.

Texts: *We the People: The Citizen and the Constitution, Level 3*. Center for Civic Education, 2009. (ISBN 10: 0-89818-232-8; ISBN 13: 978-0-89818-232-3)
Government Alive! Power, Politics, and You. Teachers' Curriculum Institute, 2009. (ISBN: 978-1-934534-01-4)

638 Current Legal Issues

0.5 credit

Prerequisite: Junior or Senior.

Current Legal Issues will focus on the latest issues and controversies facing the American legal system. Students will be asked to apply critical thinking skills and persuasive support for their views on a variety of legal issues. Mock trials, cooperative groups, essay writing, debates, and case studies will be common activities during this course.

640 Psychology I

0.5 credit

Prerequisite: Junior or Senior.

Psychology is the science concerned with behavior and mental processes. Psychology studies the environmental, biological, social, and individual forces that help to describe, explain, predict, and control behavior. This course is an introduction to Psychology. Students will examine the history of psychology, careers in psychology, the brain, research methods, the nervous system, the senses, sleep, dreams, motivation, and emotion. This course presents a broad survey of basic concepts, issues, theories, classic experiments and new discoveries in the field of psychology. This is an introductory course and is a pre-requisite for Psychology II.

Text: *Psychology and You*. National Textbook Company, 2000. (ISBN: 0-314-14090-5)

641 Psychology II

0.5 credit

Prerequisite: Psychology I (640); Junior or Senior.

Psychology is the science concerned with behavior and mental processes. This course is an extension of Psychology I in which students will continue to examine key concepts and theories of psychology. These include intelligence and creativity, personality, mental disorders, treatment, and socio-cultural influences. This course continues to a broad survey of basic concepts, issues, theories, classic experiments and new discoveries in the field of psychology.

Text: *Psychology and You*. National Textbook Company, 2000. (ISBN: 0-314-14090-5)

645 Senate Leadership

1.0 credit

Elective

Prerequisite: Approval of Student Senate Advisor.

This class is composed of all Senate membership (not open to other students). The purpose of this class is to teach leadership skills and offer realistic opportunities in which students can put these skills to work. This course will include theories of leadership, problem solving, communications, conflict resolution, group organization, committee work, citizenship development, and inter-intra-personal management. Students will meet with leaders in the school community and state and be involved in the decision-making process. Students will work on school and community projects that make theoretical material relevant. Depending on year level and position, certain students have mandatory participation in this class.

BUSINESS / TECHNOLOGY

710 Applied Economics

0.5 credit

Prerequisite: Junior or Senior or Department Approval. Offered in Spring only.

Economics examines how societies choose to allocate scarce resources among competing uses. This course focuses on fundamental economic concepts, prices and markets, and economic institutions and issues. Assessment includes various projects and a final exam.

Text: *Economics: Principles and Practices.* Glencoe-McGraw Hill, 2008. (ISBN: 978-0-07-874764-9)
Online/digital resources.

745 Business and Personal Finance

0.5 credit

Prerequisite: Junior or Senior or Department Approval. Offered in Fall only.

Students examine how personal financial management affects their daily lives in the area of banking, investments, credit, budgeting, and income taxes. Assessment includes both an in-class exam and various projects including a career planning lab, a lab which includes creating financial goals, a budget, finding an apartment, paying monthly bills and expenses and filing a tax return.

Text: Kapoor et al. *Business and Personal Finance.* Glencoe-McGraw Hill, 2007.
(ISBN 10: 0-07-868712-8; ISBN 13: 978-0-07-868712-9)

751 Digital Video Media

0.5 credit Summer / .25 credit Wednesday Mornings

This course employs hands-on activities to introduce students to some of the essentials of web design, multimedia, animation, and interactive content. Students learn image creation, manipulation and animation. Students also learn how to edit film and produce engaging clips and presentations. Applications include Adobe Flash (using Action Script) and Adobe Premier Pro. Assessment includes a final project; students will demonstrate their projects during the scheduled exam period.

761 Fundamentals of Engineering

0.5 credit

Elective

This is an elective course with a two-fold purpose. First, this course is designed to increase our offerings in STEM-related (Science, Technology, Engineering, and Math) subjects. Secondly, it is designed to provide students with a survey of all the engineering disciplines without having to make a commitment to be in an engineering program. The focus is on Mechanical, Chemical, Electrical, Biomedical, and Aerospace Engineering. This is only a semester course and will be offered in the Spring. It is open to all students but is recommended for freshmen and sophomores. There is no final exam but there will be a semester project and the course is approximately 60% hands on activities.

763 Introduction to Engineering Design

1.0 Credit

Elective

Project Lead the Way (PLTW) Introduction to Engineering Design (IED) is a high school level course that is appropriate for students who are interested in pursuing any technical or medical career path. IED is the first of four elective year-long courses in the nationally recognized PLTW engineering program. IED is a project-based learning course that exposes students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. Students will employ engineering and scientific concepts to solve design

problems using the current version of Autodesk Inventor Professional. Since IED is a project-based course, the semester finals will be included in a component of all test and quizzes that represents 30% of the student grade. Students may earn the Autodesk Inventor Professional Certified User nationally recognized credential. Students may earn two college engineering credits from the University of Colorado-Colorado Springs.

765 Principles of Engineering

1.0 credit

Elective

Prerequisite: Introduction to Engineering Design (763)

Principles of Engineering (POE) is the second year-long course in the four-year Project Lead the Way (PLTW) engineering elective. Principles of Engineering is a survey course that exposes students in a post-secondary engineering course of study. Major topic areas for this course include mechanisms, energy, statics, materials, software control, robotics, and kinematics. Students develop problem solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. Students may earn three college engineering credits from the University of Colorado-Colorado Springs.

766 Aerospace Engineering

1.0 credit

Elective

Prerequisite: Principles of Engineering (765)

Project Lead the Way (PLTW) Aerospace Engineering (AE) is a high school level full-year elective course that is appropriate for students who are interested in pursuing any science, technical, engineering, mathematical or medical career path. Aerospace Engineering is for junior and/or senior students who have completed PLTW Principles of Engineering. This third/fourth year course provides a glimpse into the field of Aerospace Engineering. AE explores the evolution of flight, navigation and control, flight fundamentals, aerospace materials, propulsion, space travel, and orbital mechanics. Students will design, build, and analyze aerospace systems such as wind tunnels, gliders, rockets, and rovers. Students will discover the reality and complexity of aerospace design. Since AE is a project-based course, the semester finals will be included in a component of all test and quizzes that represents 30% of the student grade. Students may earn three college engineering credits from the University of Colorado-Colorado Springs.

767 AP Computer Science Principles

1.0 credit

Elective

Prerequisite: Algebra IIA (322)

Project Lead the Way (PLTW) AP Computer Science Principles (CSP) is the third year-long course in the four-year PLTW engineering elective, this course is also a stand-alone, meaning anyone can take this course without any prior PLTW courses. Students who enroll in this class will work in teams to develop computational thinking and problem solving skills. The course covers the College Board's new CS Principles framework. Additionally, students who complete this class may opt to take the AP Computer Science Exam (additional fee required). The course does not aim to teach mastery of a single programming language but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. The course also aims to build students' awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Languages

introduced include Python, Scratch, and MIT App Inventor. Since AP CSP is a project-based course, the semester finals will be included as a component of all tests and quizzes that represents 30% of the students' grade. Students may earn three college engineering credits from the University of Colorado-Colorado Springs.

769 Engineering Design and Development (H)

1.0 credit

Honors

Prerequisite: Principles of Engineering (765), and either Aerospace Engineering (766) or AP Computer Science Principles (767)

Project Lead the Way (PLTW) Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research course for seniors only in which they work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solution. Finally, student teams will present and defend their original solution to an outside panel. There are no tests or finals in this course. Students may earn three college engineering credits from the University of Colorado-Colorado Springs.

Disclaimer to be added to PLTW courses

Students enrolled in the St. Mary's PLTW Engineering Program will be using small hand and power tools. Parents and students understand that the risk of injury in this class is higher than a standard classroom course.

Note for all PLTW courses

All five PLTW courses offer dual credit from the University of Colorado-Colorado Springs. IED earns 2 credits and POE, AE, AP CSP, and EDD earn 3 credits. This offers students the potential to earn 14 UCCS college engineering credits while attending St. Mary's High School.

771 Introduction to Unmanned Aerial Systems (UAS)

0.5 credit

Elective

Prerequisite: Junior or Senior Only

Students will be able to build, fly, program, and analyze data from UASs. Students will gain experience with programming more complex systems that include software, hardware and data analysis in an industry standard environment. They will develop the creative and critical thinking approaches to solving problems. Through drone flight tests and sensor data visualization, students have the ability to see and analyze their program outputs in a concrete way. This is not a PLTW engineering course, however, it complements the PLTW Aerospace Engineering and AP Computer Science Principles courses nicely. Students will have an opportunity to take the FAA Part 107 Remote Pilot certification exam if at least 16 years of age (minimum age for FAA exam).

PHYSICAL EDUCATION

811 Health

0.5 credit

Required

Must be completed during Freshman year or summer prior.

Health education will teach skills for lifetime wellness. General topics covered will be Mental Health, Social Health, Human Development & Sexuality, Sexually Transmitted Diseases, Nutrition and Fitness, and Substance Abuse. Topics related to Disease Prevention and Safety, and Stress Management & Suicide will also be addressed. Instruction will include videos and research involving internet.

Text: *Health*. Pearson Prentice Hall, 2007. (ISBN: 0-13-190567-8)

821 Physical Education / Health

0.5 credit

No Longer Offered

Must be completed during Freshman year or summer prior.

The purpose of this course is to educate students on health topics, including physical, mental and social health, as well as the decision making that young adults face. This will include a primary focus on Substance (Drugs, Alcohol, Tobacco, etc) Education, Nutrition and Physical Education among other topics. This class will include time in the classroom as well as the gymnasium plus other related activities.

Text: *Health*. Pearson Prentice Hall, 2007. (ISBN: 0-13-190567-8)

820 Physical Education

0.5 credit

Required

Must be completed by Sophomore year.

Physical Education is an introductory course to physical fitness as well as team and individual sports. Emphasis will be on “active participation” in the following: aerobic and anaerobic exercises, muscular strength training, dynamic stretching, team and individual sports. Assessment: Attendance along with formal (written test, skill performance comparison) and informal (peer evaluation, self-reflection) assessments will allow for students to monitor growth consistently as they demonstrate mastery of these Physical Education concepts.

835/836 Advanced Physical Education

0.5 credit

Prerequisite: Sophomore or above, and Physical Education (820) or Physical Education/ Health (821).

Advanced Physical Education is the second level of fitness training. Although this course is designed to enhance conditioning and fitness and performance of varsity athletes, it is open to any student who has completed Physical Education. A strong emphasis is on muscle strength, speed and power training routines. Students will be instructed in resistance training basics, agility, plyometrics and speed development techniques. Equipment use will include, but is not limited to, free weights, weight machines, plyo boxes, speed developers, medicine balls, and agility ladders. Progress will be measured by physical performance and written evaluations. This course may be taken for repeat credit.

FINE ARTS

ART

979 Art Appreciation (Summer only)

0.5 credit

Students will be exposed to Art History as a starting point for learning to evaluate and interpret works of art. This class will cover different artistic periods and artists' styles, plus learning a vocabulary appropriate for discussing art appreciation.

958 Art I

0.5 credit

Art I is a beginning level art course designed to introduce students to a variety of art media and techniques while developing an understanding and appreciation for art. Basic drawing skills and techniques will be learned with an emphasis on developing spatial illusion and perspective. Color theory as it applies to painting and printmaking will be introduced. Art criticism and relevant art history will be covered while exploring how the elements and principles are used to create good composition. Students are required to complete weekly sketchbook assignments and do an oral presentation on a famous artist of their choice. Class size is limited to 20 students. A \$25 supply fee is required.

961 Art II

0.5 credit

Prerequisite: Art I (958) or Department Approval

Art II is an intermediate level art class. Students enrolled in this course must have working knowledge and understanding of drawing techniques: creating values, casting shadows and highlights, basic skills in one and two-point perspective, positive and negative space and principal concepts of color theory. This course is purely two-dimensional art. Students will work with colored pencils, chalk, and learn basic watercolor techniques and experiment with acrylic painting. Art criticism and related art history will be covered. Students will continue to do weekly sketchbook assignments and complete a final painting "in the style" of a famous artist. Class size is limited to 20 students. A \$25 supply fee is required.

962 Art III

0.5 credit

Prerequisite: Art II (961) and Department Approval

Art III is an intermediate to advanced level art class. Students enrolled in this course will expand their knowledge and application of drawing techniques utilizing charcoal, cont'e, chalk, and oil pastels. Painting techniques include watercolors and acrylic painting. Students are encouraged to be creative in choosing subjects for their work, while exploring their knowledge of material and processes. Students will also work from the human form. Students will be required to do weekly sketchbook assignments and will be creating "show quality" art pieces for exhibit in local student art competitions. Class size is limited to 16 students. A \$25 supply fee is required.

963 AP Art

1.0 credit

Prerequisite: Two semesters of art and presentation of current portfolio and Department Approval.

Advanced Placement Art is a year long, intensive independent study course, only for the students who are planning on being an Art major in college. Students must be at an advanced high school level of artwork/photography and must have had a minimum of two semesters of art/photography prior to acceptance into the class. Students will be expected to spend an average of 10-12 hours per week creating artwork/photography, devoting extra time outside school hours to work on projects. Twenty to thirty pieces of college level work will be produced over eight months. In lieu of an A.P. test, students prepare a three-part portfolio for presentation to the A.P. College Board for review. Depending on the portfolio's final score and the college or university where the student is accepted, it is possible to be waived out of beginning level college art/photography courses. Students must be able to work independently. Class size is limited to 8 students. A \$60 per semester supply fee is required. AP Testing fee is separate.

951 Drawing I

0.5 credit

Prerequisite: Art I (958) or Department Approval.

Student learning experiences will include: perspective, creating and effective composition, using a variety of traditional drawing media and techniques. Drawings will include still life, portrait and mixed media drawing from direct observation. The class will be designed to give both beginning and experienced students the opportunity to develop or enhance their drawing ability. The course sequence will be five three-week learning experiences beginning with perspective, linear drawing styles and techniques, still life drawing, portrait drawing, mixed media and the incorporation of eight drawing media over the semester for various drawing experiences: pencil, colored pencil, pen and ink, ball point pen, charcoal, pastel brush and ink, and watercolor. A \$25 supply fee is required.

952 Painting I

0.5 credit

Prerequisite: Drawing I (951) or Department Approval.

Student learning experiences will include: watercolor, acrylic and oil pastel painting with instruction in a variety of painting techniques utilizing these media. The class will be designed to give both beginning and experienced students opportunities to develop and/or enhance their painting skills, exposure to and application of contemporary and traditional painting styles and the use of specific media techniques and personal expression. A \$40 supply fee is required.

956 Photography I

0.5 credit

Prerequisite: Art I and Sophomore or higher-grade level.

This course is designed to introduce students to the fascinating world of black and white "art" photography. Students will learn about the history of photography and how to use a single lens reflex adjustable camera. Assignments will enhance student learning beginning with composition, singling out artistic elements such as line, shape, texture, patterns, and perspective. Photographic skills such as stop-action, use of depth of field, and landscapes will also be explored. Negative development and darkroom techniques will be learned, resulting in the final presentation of a student-produced portfolio/notebook. Due to the size of the darkroom, the class size is limited to a maximum of 8

students. A \$70 supply fee is required. It is recommended that students supply their own 35mm SLR camera. A limited number of cameras are available for rental through the Art Department.

964 Photography II

0.5 credit

Prerequisite: Photography I (956) and Department Approval.

Photography II is an intermediate level photography class. Students will explore the creative side of black and white photography, using a variety of darkroom techniques to enhance and/or correct images, build on their basic knowledge of making flawless photographs suitable for framing and exhibits at art shows and will encounter the fascinating world of high-contrast photography. Projects include manipulation of negatives and prints, portraiture, single subject isolation, imaginative shots, color tinting and hand coloring black & white prints. Photography notebooks must be maintained as a body of evidence as successful completion of class requirements. Due to the size of the darkroom, the class size is limited to a maximum of 8 students. A \$70 supply fee is required. It is recommended that students supply their own 35mm SLR camera. A limited number of cameras are available for rental through the Art Department.

955 3-D Art

0.5 credit

No Longer Offered

Prerequisite: Art I (958).

Students who like sculpture and/or ceramics should take this course. Students will learn to appreciate constructive art forms including wire sculpture, additive and subtractive sculpture, and working clay. Sculpture media includes, but is not limited to, altered books and electrical wire, plaster of Paris, wood and even some found material construction. Clay work will include tiles and basic clay techniques. Design of shape and form will be covered with historical examples and applications. A \$45 supply fee is required.

966 Ceramics I

0.5 credit

Prerequisite: Art I (958) or Department Approval.

Student learning experiences will include: creating hand built 3-dimensional functional and artistic creations using 3 major hand building techniques – pinch pot, slab and coil. The semester will be divided into three four-week units of study incorporating each hand building technique. Time must be incorporated to include drying and kiln firing student works and additional time provided for completion of individual projects. A \$40 supply fee is required.

968 Ceramics II

0.5 credit

Prerequisite: Ceramics I (966).

Ceramics II is an intermediate level class that will utilize more advanced projects, concepts and techniques introduced in Ceramics I. Students will work with more complex hand built ceramic techniques in pitch pot, slab, coil and ceramic sculpture. Specific decorating techniques and applications will be explored for functional and decorative ceramic projects. Students will also be given extender opportunities to develop wheel throwing experience and advance techniques for throwing more functional and complex forms to include, lidded and combination forms using hand built or sculpted forms. Ceramics II students will be expected to assist in loading and firing the kiln, gain practical skill in applying specific glazing techniques – for aesthetic effects, and maintaining the

work environment to include organization and monitoring glazes and creating glaze tiles. Additional opportunities (time and weather permitting) include specific ceramic firing techniques and options to create, glaze and finish functional and decorative ceramics works. Class size is limited to 8 students. A \$45 supply fee is required.

MUSIC

960 Vocal Music (Choir)

1.0 credit

No Longer Offered

Emphasis is on developing music skills including voice placement, tone production, blend, basic music reading, ear training and harmony. A variety of music styles will be explored and presented in performances and music festivals. Voluntary participation in Solo and Ensemble Contests and musicals is encouraged.

6960 Vocal Music (Choir)

.25 credits

Wednesday Mornings only

Emphasis is on developing music skills including voice placement, tone production, blend, basic music reading, ear training, and harmony. A variety of music styles will be explored and presented in performances and music festivals. Voluntary participation in Solo and Ensemble contests and musicals is encouraged.

THEATRE

242 Theatre I

0.5 credit

Offered in Fall only

This course explores the fundamental elements of theater and the performing arts. The goal of the class is to educate students in the basic art of theatre. Students will learn the history of the theatre, stage direction, effective storytelling, voice, and movement. Students will receive a hands-on approach to theatre through various activities, monologues, and performance projects.

243 Theatre II

0.5 credit

Offered in Spring only

This course explores the fundamentals of improvisation and auditioning techniques. The goal of this class is to educate the students in improvisational styles and techniques and prepare the students for future auditions for universities and professional companies. Students will learn improvisational skills through group and individual activities, and projects. Students will learn audition techniques through monologues, scenes, and cold reads.

SPECIALS

923 eDynamics Career Electives

0.5 Credit

Elective

eDynamics career elective courses offer students the opportunity to customize their learning experience, engage socially and intellectually, and achieve academic excellence. The coursework promotes knowledge-building and critical thinking skills. Students are asked to review and apply key course concepts to various situations and personal experiences. High-interest discussion questions encourage students to share learning experiences with each other. Each course contains professional audio narration of all unit content and a reading level that is both balanced and interesting for high schools students.

Classes offered:

BUSINESS

Entrepreneurship Starting your Own Business
Personal and Family Finance
International Business - Global Economy in the 21st Century
Hospitality and Tourism
Sports and Entertainment marketing
Advertising and Sales Promotion

EDUCATION

Early Childhood Education

SCIENCES

Veterinary Science - The Care of Animals
Biotechnology - Unlocking Natures Secrets
Health Science I - The Whole Individual
Health Science II - Patient Care and Medical Services
Sociology - Prerequisite Psychology I-II

LEGAL

Law and Order - Introduction to Legal Studies
Forensic Science I - Search of The Dead
Forensic Science II - Search of The Dead
Careers in Criminal justice
Principles of Public Service - To Serve and Protect

ARTS

Music Appreciation - The Enjoyment of Listening
Creative Writing
Culinary Arts