

2017-2018

**PREFACE**

Yuma Catholic High School is proud to offer the Curriculum Course Guide for the 2017-2018 academic school year. Please review the entire document carefully.

The faculty at Yuma Catholic High School believes that a comprehensive curriculum is necessary to meet the needs of all our students. Contained within this booklet are courses that meet the needs of students who wish to pursue post-secondary education.

Each course description should be studied as to the content and procedures that shall be used within the class. We hope that our students will take full advantage of the our school's resources, enrolling in areas that will enable them to develop their full potential and to contribute significantly to society.

Only those courses with a sufficient number of students enrolled will be placed in the master schedule.

**TO THE STUDENT:**

Selecting a course of study is an important decision making process for all students; hence it is imperative to select courses based on the following considerations:

- ◆ This is a required course, so it must be an important part of my general education.
- ◆ This in an area of weakness, so I choose it in order to strengthen my educational background.
- ◆ This course is one I need to meet a requirement for entering a particular college, specialized school, training program, or a particular occupation.
- ◆ This course is part of a sequence that will prepare me with the knowledge needed to complete the next course in the sequence.
- ◆ This course is the kind that will challenge my abilities.

Please remember that wise judgment, careful inquiry, and ongoing communication will facilitate Yuma Catholic's goal of offering a challenging, high quality course of study for all students.

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## **REGISTRATION PROCEDURES**

This curriculum guide has been prepared to assist you in registration for the 2016-2017 school year as well as for future program planning. Attention should be given to prerequisites (completion of prior courses) and the grade level required for each course. Some courses require the signature of your present teachers in that area of study. The procedure for making your choice of classes and the other information required will be explained to you.

Students should give considerable thought to the courses selected in order that the proper number of sections can be provided to accommodate as many student requests as possible. Students are urged to seek assistance from parents, present teachers, and school counselors in determining those courses that will best prepare them for their future educational and/or occupational goals. Before turning in course selections for next year, students will meet with their counselor for academic advisement. During advisement, a counselor reviews the student's course selections and makes recommendations in light of the student's educational and vocational goals and present achievement. Parents are invited and encouraged to attend registration. Faculty will be present to answer questions.

You must take both semesters of all-year classes. In order to provide more flexibility in course selection, students enrolled in full-year courses may be assigned to different teachers and/or periods second semester. There will be a seven period day.

By using the four year planning information on the next few pages, you are being provided an opportunity to develop, monitor, and manage your educational plan through a structured, systematic individual planning system. When completing your "Four Year Program of Study," be sure to consult the graduation and college admission requirements on the following pages. If you have questions, contact the Guidance Office.

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## **COURSE SELECTION/SCHEDULE CHANGE POLICY**

**The fee for a course change, after schedules have been published and if initiated by a student/parent, is \$10. The exceptions to this fee are:**

1. A scheduling mistake has been made;
2. A need to balance classes;
3. Classes must be canceled due to insufficient enrollment
4. It is determined by school officials that a circumstance exists whereby the student has little chance to realize success

Changes in course selections, other than those listed above, will not be permitted after the end of the second full week of school.

*Any class change must be processed through the guidance office and will happen after all required signatures are received.*

PLEASE NOTE: There may be occasions when your counselor needs to switch a second semester course selection with a first semester selection in order to have a workable schedule. In order to achieve more flexibility and fewer scheduling conflicts, second semester scheduling may result in students being scheduled for different teachers and/or periods than they had first semester in all-year classes.

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### **ADVANCED PLACEMENT COURSES**

Advanced Placement courses are challenging courses that offer the possibility of college credit. The curriculum is guided by the College Board standards. Students must complete the AP Exam in May, which requires a fee. The number of college credits and/or placement in college courses is based upon the scores the students earn and determined by the college they plan to attend.

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### **HONORS COURSES**

Honors courses are designed for students who are both proficient and capable in their reading and writing skills. The courses are designed to be rigorous and to assist students in preparation for the challenge of advanced work. Teacher recommendation is required for placement in honors classes.

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### **COLLEGE ADMISSION REQUIREMENTS**

Requirements for admission to college will depend on the college to which you are applying and the kind of program you expect to pursue. For example, a student planning to enter one of the most highly competitive colleges in the country will need to meet more demanding entrance requirements than a student planning to enter a state school or a community college. The more

selective or competitive colleges may require specific numbers of credits in specific courses as well as a relatively high class rank and college admission test scores.

The best approach to college planning is to strive to keep options open by taking a good distribution of academic coursework all four years of high school, with as much preparation in each area as possible. You should begin planning early for college so you will have the necessary requirements when it is time to apply to the college of your choice. Many colleges and universities are increasing admission requirements. Parents and students should check individual institutions for specific requirements and work closely with the guidance office as well as the college counselor.

Taking an abbreviated or less demanding course load during the senior year is highly discouraged. Such a course load is a negative factor in the college admission/scholarship award process.

YCHS recommends that college bound students, whenever appropriate, consider the following:

<p><b><u>Yuma Catholic High School Diploma</u></b> Requirement for Graduation - 24</p>	<p><b>Core requirements for regional colleges and universities</b></p>	<p><b>Highly Selective University Systems</b></p>
<p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• 4 Yrs Theology</li> <li>• 4 Yrs English</li> <li>• 4 Yrs Math</li> <li>• 3 Yrs Social Studies</li> <li>• 3 Yrs Science</li> <li>• 1 Yr Fine Arts</li> <li>• 1 Yr PE</li> <li>• 1 Yr Health/Fr. Sem.</li> <li>• 2 Yrs Mod. Language</li> <li>• 1 Elective</li> </ul>	<p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• 4 Yrs English</li> <li>• 4 Yrs Mathematics (Algebra I and higher)</li> <li>• 2 Yrs Social Studies – Am/AZ History and Gov./Econ</li> <li>• 3 Yrs Science</li> <li>• 1 Yr Fine Art</li> <li>• 2 Yrs Modern Language (same lang.)</li> </ul>	<p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• 4 Yrs English</li> <li>• 4 Yrs Mathematics (Algebra I and higher)</li> <li>• 3 Yrs Social Studies</li> <li>• 3 Yrs Science</li> <li>• 2 Yrs Modern Language (same language)</li> <li>• 1 Yr Fine Art</li> <li>• Adequate ACT/SAT score</li> </ul>

**\*\*Students must have at least one of the following to be admitted to most universities without conditions:**

- An unweighted 3.0 GPA average
- Class rank in the top 25% of their class
- Minimum ACT composite score – 22
- Minimum SAT 1 composite score – 1040

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**REPETITION OF A COURSE OPTION**

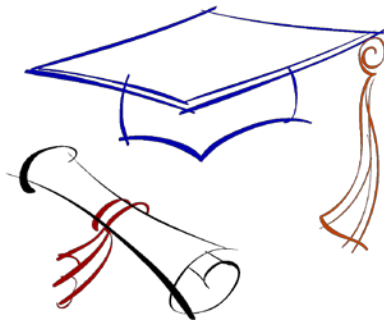
Students who receive an “F” in a required course must repeat the course and earn the credit needed. Students who receive a “D” in a course required for graduation or a “D” or “F” in an elective course will be eligible to petition their high school principal to repeat a course. Students must petition before the start of the semester for consideration to repeat a course.

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## **COLLEGE/CAREER PLANNING OPPORTUNITIES**

The Guidance Office is an excellent resource for students to learn about all aspects of the career/college planning process. The curriculum is developmental in nature. Services are comprehensive: individual and group counseling activities, special topic programs, and diverse resources. Students and parents are encouraged to work closely with the guidance counselors and the college admissions specialist/counselor throughout their high school years concerning post-secondary planning.

The Guidance Office is available for obtaining facts about colleges, professional schools, occupations, military careers, financial aid, and scholarships. This accurate and up-to-date information, used in conjunction with other guidance materials, provides the means to make informed decisions regarding educational and career choices.



## COURSE DESCRIPTIONS

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### THEOLOGY

These courses are based upon the Curriculum Framework of the American Bishops for Catholic High Schools in the United States. The following standards and objectives were worked on by a committee of high school teachers appointed by the bishops of the Diocese of Tucson, the Diocese of Phoenix and the Diocese of Gallup.

**Theology I (Core 1): The Revelation of Jesus Christ in Scripture** (Grade 9) 0.50 CREDIT

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through inspiration, and its value to people throughout the world. They will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally.

**Theology I (Core 2): Who is Jesus Christ?** (Grade 9) 0.50 CREDIT

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, and the Second Person of the Blessed Trinity. In this course students will learn that Jesus Christ is the ultimate Revelation to us from God. Thus, by learning about who he is, the students will have a greater appreciation of who he calls them to be.

**Theology II (Core 3): The Mission of Jesus Christ** (Grade 10) 0.50 CREDIT

The purpose of this course is to help students understand God's master-plan for all of us through his son, Jesus Christ. Through this course, students will learn that God's plan for us is to share eternal happiness with him which is accomplished through the redemption Christ won for us. Finally, they will be introduced to what it means to be a disciple of Christ and what that that life entails.



**Theology II (Core 4): Jesus Christ's Mission Continues In The Church (Grade 10) 0.50 CREDIT**

The purpose of this course is to help students understand and appreciate that they can encounter the living Christ in and through the Church. They will be introduced to the fact that the Church was founded by Christ himself through the Apostles and sustained by him through the Holy Spirit. The students will come to know that the Church is the living body of Christ today, a body that has both divine and human elements.

**Theology III (Core 5): Sacraments as Privileged Encounters with Jesus (Grade 11) 0.50 CREDIT**

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the Sacraments of the Church. The concept of each Sacrament will be examined in depth.

**Theology III (Core 6): Life in Jesus Christ (Grade 11) 0.50 CREDIT**

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life.

**Theology IV: Ecumenical and Interreligious Issues (Grade 12) 0.50 CREDIT**

The purpose of this course is to gain an appreciation of the various religions in the world, to have a sense of empathy toward their participants, and to have the ability to make both positive and realistic comparison between them and Catholicism. The course is also intended to help students recognize the ways in which important spiritual truths can also be found in non-Catholic Christian churches and in ecclesial communities as well as in non-Christian religions.

**Theology IV: World Religions Dual Enrollment (Grade 12) 0.50 CREDIT**

The course examines the historical origins and settings, central doctrines and practices, and cultural impact and significance of the major living religions. Primary topics include, but not limited to: Hinduism, Buddhism, Judaism, Christianity, and Islam.

**Theology IV: Living as a Disciple of Jesus Christ in Society (Grade 12) 0.50 CREDIT**

The purpose of this course is to introduce students to the Church's social teaching. In this course, students are to learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission.

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## ENGLISH

The following English course descriptions reflect Arizona State Standards for Reading, Writing, Listening and Speaking, Viewing, and Presenting. The English department strives to develop student potential in these areas, thus enabling students to function effectively in various communication roles. Four credits of English are required for graduation.

### **English I: Survey of Literature** (Grade 9)

1 CREDIT

This course provides instruction in the areas of grammar, vocabulary, speech and composition. The course emphasizes: reading fluency and it surveys literary themes, elements, and genres. Skills taught but not limited to include conventions, word choice, sentence fluency, paragraph structure and development, essay writing, public speaking, discussion and reading comprehension.

Prerequisite: 8<sup>th</sup> Grade Placement Exam

### **English I Honors: Survey of Literature** (Grade 9)

1 CREDIT

This writing intensive course is designed for the student who responds to a challenge. The class will emphasize student development in a variety of areas, including: critical reading and analysis of a variety of literary forms, writing (creative and persuasive), vocabulary development, communication skills, and the conventions of the English language. Skills taught include conventions, word choice, sentence fluency, paragraph structure and development, essay writing, public speaking, discussion and reading comprehension, preparing students for a variety of challenges.

Prerequisite: 8<sup>th</sup> Grade Placement Exam

### **English II: World Literature** (Grade 10)

1 CREDIT

English II is a course that further develops the language skills introduced in the freshman year and focuses on literary genres surveying cultural, religious, and political themes. Rigorous composition instruction concentrates on the writing process, and methods of organizing the full-length essay. The required literary text is Julius Caesar by William Shakespeare. There will be a minimum of three on-demand writing assessments and one research project.

Prerequisite: English I

**English II Honors: World Literature (Grade 10)**

1 CREDIT

English II Honors is a course that further develops the language skills introduced in the freshman year and focuses on literary genres surveying cultural, religious, and political themes. Rigorous composition instruction concentrates on the writing process with emphasis on peer editing, revising, and methods of organizing the full-length essay. The course includes preparation for formal writing assignments. The required literary text is Julius Caesar by William Shakespeare. Included to be read on the Honors level will be an additional Shakespeare play and two novels. There will be a minimum of three on-demand writing assessments and one research project.

Prerequisite: English I Honors with a grade of B or better and teacher recommendation

**English III: American Literature (Grade 11)**

1 CREDIT

During their grand adventure of exploring American literature, junior English students will read and write about literature that reflects the country's major literary periods: Romanticism, Realism, Modernism, and Postmodernism. Student compositions will focus on literary analysis with attention to the author's techniques. These compositions should exhibit the kind of organization, style, vocabulary, and conventions found in mature critical essays. Students in English III will also be challenged to expand their independent research skills. In addition, students will be asked to read approved titles of both fiction and nonfiction books. Prerequisite: English I and II

**English III AP: Language and Composition (Grade 11)**

1 CREDIT

Students in this year-long, college-level course read and carefully analyze a challenging range of nonfiction and fiction prose selections, deepening their awareness of rhetoric and how language works. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composition skills. During this course, students prepare for the AP English Language and Composition Exam given on the morning of Wednesday, May 16, 2017, and may be granted advanced placement, college credit, or both as a result of satisfactory performance. As this is a college-level course, performance expectations are appropriately high, and the work is challenging. Most of the assigned readings will be completed outside of class. *Students must pay for and take the AP exam in May in order to receive AP course credit on their transcripts.*

Prerequisite: Book fee, grade B or better in English II Honors and/or teacher recommendation

**English IV: British Literature** (Grade 12)

1 CREDIT

Both semesters will focus on the reading and discussion of the works of major British writers. The aim is to familiarize students with universal ideas expressed in the British writing heritage and to enable students to recognize the close connection between history and literature. A fully documented research paper is required during the spring semester. All writing assessments will be scored using the six-traits of writing (ideas/content, conventions, organization, word choice, voice, and sentence fluency).

**English IV AP: Literature and Composition** (Grade 12)

1 CREDIT

This challenging advanced placement course covers world literature from all literary periods, spanning from the Middle Ages to the present, and requires extensive reading above and beyond English IV Honors with intensive study of literary analysis and critical theory. Genres include novels, plays, poetry and short fiction. *Students must pay for and take the AP exam in May in order to receive AP course credit on their transcripts.* Prerequisite: Book fee, English III AP with grade of B or better and/or teacher recommendation.

**English 101 and 102 / Dual Enrollment** (Grade 12)

1 CREDIT

English 101 and 102 with Arizona Western College

This writing intensive course is open to YC seniors only and follows the curriculum guidelines put forth by Arizona Western College. Fall semester focuses on expository writing, including writing processes and effective rhetorical choices, and the spring semester focuses on academic writing, with emphasis on research methods. *In addition to having the appropriate placement tests scores in order to enroll in this course, students must also pay tuition to AWC for both semesters and purchase the required textbooks.* Upon successful completion of both semesters, students will have completed both English 101 and 102 (Freshman Composition) and receive college credit from AWC.

Prerequisite: Placement Test scores based on AWC Freshman Composition guidelines

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## MATHEMATICS

The focus of mathematics curriculum involves the development of logical reasoning and problem solving skills. These skills are invaluable, and apply to all areas of adult life. The use of technology helps students to discover, analyze and make logical connections among mathematical concepts. The goal of Yuma Catholic High School is to inspire students to take four years of math. The YCHS mathematics curriculum is designed for all students, from the mathematically precocious to the mathematically challenged.

### **Algebra I** (Grade 9, 10) 1 CREDIT

Students will acquire and demonstrate knowledge of concepts, definitions, properties, and applications of algebra. The focus includes data and linear representation, systems of linear equations and inequalities, proportional reasoning and statistics, laws of exponents, polynomials and factoring, quadratic functions, radical functions and coordinate geometry and probability.

Prerequisite: Pre-Algebra Standard plus teacher recommendation

### **Algebra I Honors** (Grade 9, 10) 1 CREDIT

Students will acquire and demonstrate knowledge of concepts, definitions, properties, and applications of algebra in a faster and more in-depth approach. The focus includes data and linear representation, system of linear equations and inequalities, proportional reasoning and statistics, laws of exponents, polynomials and factoring, quadratic functions, radical functions, coordinate geometry and probability. TI 84 graphing calculator is required for this course.

Prerequisite: Pre-Algebra Standard plus teacher recommendation

### **Geometry** (Grade 10, 11) 1 CREDIT

Emphasis of this course is on deductive reasoning, inductive reasoning, and logic. The course includes the role of assumption, definitions, and theorems in a mathematical system, and the congruence of polygons. Also included is an introduction to coordinate and three-dimensional geometry, plus the property of right triangles, trigonometry, and transformation of geometric figures. Technology and a hands on approach are used to attain mastery of the standards. A scientific calculator is required for Geometry (example TI-30) but I recommend you get a TI-83 or 84 which is required for Algebra 2.

Prerequisite: Algebra I Standard plus teacher recommendation

**Geometry Honors** (Grade: 9, 10)

1 CREDIT

This course is designed for students who excelled in Algebra I, and desire to study Geometry in greater depth. It is an enriched and accelerated course that will give emphasis to logic and the nature of proofs. Students are expected to have a command of the skills learned in Algebra and will be required to use them. A scientific calculator is required for Geometry (Example: TI-30) but I recommend you get a TI-83 or 84 which is required for Algebra 2.

Prerequisite: "A" average in Algebra I or "B" or better grade in Honors Algebra I plus teacher recommendation

**Algebra II** (Grade: 10, 11)

1 CREDIT

Students will solve basic and complex mathematical problems by applying the concepts learned in Algebra I and Geometry. The course will review many topics covered in Algebra I but will then apply them on a more advanced level. Semester 1 topics will include foundations for functions and linear functions. Semester 2 topics will include systems of functions and quadratic functions.

Prerequisite: Algebra I

**Algebra II Honors** (Grade: 10, 11)

1 CREDIT

This is an accelerated and enriched course that includes all of the content of Algebra II as well as plane trigonometry. Topics include solving equations in multiple variables, computation and estimation of numbers, graphing functions and trigonometric and logarithmic functions. Trigonometry studies both the right triangle approach and the circular function approach. A graphing calculator is required.

Prerequisite: "A" average in Geometry or "B" average or better in Honors Geometry plus teacher recommendation

**Pre-Calculus** (Grade 12)

1 CREDIT

This is an accelerated and enriched course that includes all of the content of Algebra II as well as plane trigonometry. Topics include Exponential and Logarithmic Functions, Rational and Radical Functions, Properties and Attributes of Functions, Conic Sections, Probability and Statistics, Sequences and Series, Trigonometric Functions, and Trigonometric Graphs and Identities. A graphing calculator is required.

Prerequisite: Grade of "C" or better in Algebra II plus teacher recommendation

**Pre-Calculus Honors** (Grade: 11)

1 CREDIT

This course is intended to provide the mathematical background needed for calculus, and it assumes that students have taken a geometry course, two courses in algebra, and have the

recommendation of their previous math teacher. Topics include Number Patterns, Equations and Inequalities, Functions and Graphs, Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometry, Trigonometric Graphs, Solving Trigonometric Equations, Trigonometric Identities and Proof, and Trigonometric Applications. A graphing calculator is required.

Prerequisite: Algebra II or Honors Geometry plus teacher recommendation

**Trigonometry (Grade 11, 12)**

0.50 CREDIT

This course provides students with the study of circular and trigonometric functions and their applications. Topics include identities, equations, graphs, law of sines and cosines, vectors, polar graphing and solutions of right triangles. This course emphasizes real-world applications. (A TI-83+ graphing calculator is required.)

Prerequisite: Algebra & Geometry

**Probability & Statistics (Grade 11, 12)**

0.50 CREDIT

This is a beginning statistics course for students whose mathematical background is limited to basic algebra. It takes a non-theoretical approach without formal proofs, explaining concepts intuitively and supporting them with abundant examples. This course will cover descriptive statistics and inferential statistics. This course will include the following topics: averages, graphing data, standard deviation, variance, percentiles, probability, normal distributions, sample sizes, correlation, and regression. This branch of mathematics has numerous applications to business and computer science fields. (A TI-83+ graphing calculator is required.)

Prerequisite: Algebra & Geometry

**MAT 151: College Algebra**

**Concurrent Enrollment with Arizona Western College**

1 CREDIT

Extension and further development of algebra, with an emphasis on functions - including linear, quadratic, rational, radical, exponential and logarithmic. Other topics include function transformations, regression analysis, inequalities, absolute values, systems of equations, matrices, sequences, and series. Appropriate placement test score or prerequisite is required for dual credit with Arizona Western College.

**MAT 187: College Pre-Calculus**

**Concurrent Enrollment with Arizona Western College**

1 CREDIT

Development of algebra with a concentration on functions and a study of exponentials, logarithms, sequences, and series. Also included is a study of trigonometric functions and identities. Appropriate placement test score or prerequisite is required for dual credit with Arizona Western College.

**Business Math (Grade 12)**

1 CREDIT

This course includes application of basic mathematic fundamentals to business situations that occur in home and in business. It includes personal and business banking, personal and business budgeting, long and short-term credit, interest, and investments. The content includes mathematical operations related to accounting, banking and finance, marketing, and management.

Prerequisite: Algebra I, Algebra II, and Geometry Standards plus teacher recommendation

**MAT 220: Calculus I with Analytical Geometry**

**Concurrent Enrollment with Arizona Western College**

1 CREDIT

Introduction to analytic geometry and the differential and integral calculus of the elementary functions. Included is a study of limits, continuity, differentiation, applications of derivatives, anti-derivatives, integration, exponential, logarithmic, and trigonometric functions.

Prerequisite: MAT 151 and MAT 183 or MAT 187 or an acceptable score on the Computerized Placement Test (CPT)

**MAT 230: Calculus II with Analytical Geometry**

**Concurrent Enrollment with Arizona Western College**

1 CREDIT

Applications of the integral, techniques of integration, parametric and polar form, convergence of series, Taylor and MaLauren series.

Prerequisite: MAT 220

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## SCIENCE

Students explore the world through a comprehensive science curriculum that includes classes in Introduction to Lab Science, Biology, Chemistry, Physics, Environmental Science and Anatomy and Physiology. Special emphasis is placed on understanding the concepts of each field of science through lecture, experimentation, hands-on activities, and class discussions. The Science Department offers two programs of study to meet the abilities and needs of students.

### **Earth & Space Sciences** (Grade 9, 11)

1 CREDIT

The purpose of the Earth and Space Sciences (ESS) class is to introduce students to Earth Space science practices, while providing a real-world foundation, and knowledge of the natural world that will serve as for a more advanced secondary skills necessary for earth and space science oriented technical careers. This course will take a holistic look at the dynamic interactions in Earth and Space systems. The Earth and Space Science course will be on investigations that are centered on complex topics such as geochemical cycles, climate systems, origin and evolution of the various Earth's systems, the Solar System, and the Universe. This course will also provide a challenging, in-depth study of the aforementioned areas, and will also provide for the integration of mathematics, analysis, and various science concept processes, that will be stressed for success in this class, and continued success in the major branch studies within other areas of sciences. Students should expect the course material to be focused with significant emphasis on laboratory experiments and independent work within all basic areas of science.

Prerequisite: Teacher recommendation and/or 8<sup>th</sup> grade placement test scores

### **Biology** (Grade: 9, 10)

1 CREDIT

Biology, the study of life on our planet will cover the cell theory, biochemistry, genetics, DNA, ecology, classification and study of the six kingdoms. Laboratory opportunities will occur to facilitate acquiring the skills of planning, critical thinking, predicting, and observation, data collection, analyzing, and forming logical conclusions. The use of laboratory equipment will be used in labs. Some virtual dissection and actual dissections of specimens will be introduced to students.

Students will practice lab safety protocol, and acquire techniques for making various accurate measurements using lab instruments. Through lab investigation students will learn the importance of making good observations to aid in critical thinking and making logical conclusions.

Prerequisite: Teacher recommendation and/or 8<sup>th</sup> grade placement test scores.

### **Honors Biology** (Grade: 9, 10)

1 CREDIT

Biology, the study of life on our planet will cover the cell theory, biochemistry, genetics, DNA, evolution vs creation, natural selection, ecology, classification and study of the six kingdoms. Laboratory opportunities will occur to facilitate acquiring the skills of planning,

critical thinking, predicting, observation, data collection, analyzing, and forming logical conclusions. The use of laboratory equipment will be used in labs. Some virtual dissection and actual dissections of specimens will be introduced to students.

Students will practice lab safety protocol, and acquire techniques for making various accurate measurements using lab instruments. Through lab investigation students will learn the importance of making good observations to aid in critical thinking and making logical conclusions.

Honors Biology will distinguish itself from Biology in that the coursework will be more rigorous and mastery level academic performance will be expected. Students will be held to high standards of academic achievement and classroom behavior.

Prerequisite: Teacher recommendation and/or 8<sup>th</sup> grade placement test scores.

**Chemistry** (Grade 10, 11, 12)

1 CREDIT

Chemistry is a lab course that builds upon a basic conceptual understanding of science. The following instructional approaches are utilized: lecture, lab, discussion, and problem solving. This course is recommended for the college-bound student. It covers most of the major principles of inorganic chemistry, i.e. scientific inquiry, atomic structure, periodic table, and bonding.

Prerequisite: Biology

Algebra II or concurrent enrollment in Algebra II

**Honors Chemistry** (Grade: 10, 11, 12)

1 CREDIT

Honors Chemistry is a lab course that builds upon a basic conceptual understanding of science. The following instructional approaches are utilized: lecture, lab, discussion, and problem solving. This course is recommended for the college-bound student. It covers most of the major principles of inorganic chemistry, i.e. scientific inquiry, atomic theory, bonding, gas laws, periodicity, states of matter and acid-base concepts.

Prerequisite: Grade of B or better in previous science classes (Biology or Honors Biology), Algebra II or concurrent enrollment in Algebra II

**Physics** (Grade: 11, 12)

1 CREDIT

The purpose of the Physics class is to develop an understanding of concepts in modern Physics. The class will provide a challenging, in-depth study of Newtonian Mechanics, Fluid Mechanics and Thermal Physics, Electricity and Magnetism, Wave Optics, and Atomic/Nuclear Physics. Students should expect the course material to be focused with a significant emphasis on laboratory experiments and independent work. This is a one (1) credit class, and will have an impact on their high school grades, GPA and/or transcripts. Students should expect to spend 2-4 hours outside of class on physics related assignments.

Prerequisite: Biology, Chemistry, and Algebra II

Fulfills Science requirement

**Physics Honors (Grade: 11, 12)**

1 CREDIT

The purpose of the Honors Physics class is to develop an understanding of the concepts of classical and modern Physics, while preparing students for the rigors of similar “college type course work.” The class will provide a challenging, in-depth study of Newtonian Mechanics, Fluid Mechanics and Thermal Physics, Electricity and Magnetism, Wave Optics, and Atomic/Nuclear Physics. Students should expect an accelerated pace of course material with a significant emphasis on laboratory experiments and independent work. This will be a one (1) credit class, and will have an impact on their high school grades, GPA and/or transcripts. Students should expect to spend 4-6 hours outside of class on physics related assignments.

Prerequisite: Biology, Chemistry, Algebra II, a grade of B or better in previous science and math classes

**Anatomy and Physiology Honors (Grade: 11, 12)**

1 CREDIT

Anatomy and Physiology is the study of the body’s cells, tissues, organs and systems. Although the main emphasis is the human body, other laboratory specimens will be used in the lab as an introduction to the anatomical components of the body. Virtual dissection using computer technology will be utilized and actual specimens will be dissected and studied in the lab as well. During the second semester of the course the class will be dissecting cats. Cats are a comparable mammal to study the anatomy of the human body.

Throughout the course students will be learning how the body’s cells, tissues, organs and systems function and interact with each other to maintain homeostatic health. Students will also understand why and how the body reacts when our body becomes out of homeostasis with an illness or disease. Anatomical and Medical vocabulary and terminology will also be a focus of instruction during this course.

Prerequisite: Biology, Chemistry, or Chemistry concurrently

**Agricultural Science**

The Agricultural Science program is designed to prepare students for employment in the Agriculture, Food and Natural Resources career cluster as defined by the USDE Office of Vocational and Adult Education. Students completing this program will possess the appropriate cluster technical knowledge and skills associated with the production, processing, marketing, distribution, financing and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture and other plant and animal products/resources. In addition to the required technical skills, students will also develop leadership, advanced employability, critical thinking, applied academic, and life management skills. The program utilizes a delivery system made up of three essential and required components: formal instruction, experiential education through Supervised Agricultural Experiences (SAEs), leadership and personal development through the Career and Technical Student Organization FFA.

**Agricultural Science I: Introduction to Applied Biological Systems**

1 CREDIT

Intro to Applied Biological Systems- This course is designed to introduce students to the fundamental biological systems of both plant and animal to establish the knowledge base needed for decision making in the field of Agribusiness. Although the course is not a traditional biology course, the Arizona State Board of Education has deemed completion of both this course and the subsequent applied biological systems course eligible for embedded science credit if standards are met, a program review has been completed, the teacher is appropriately certified and embedded curriculum is approved by the district's local governing board. It is required that these standards are covered in a minimal two-sequence to earn on embedded science credit.

**Agricultural Science II = Applied Biological Systems**

1 CREDIT

Applied Biological Systems- The second course recommended for the Agribusiness Systems program. This course is designed to enhance students understanding in a real world/hands-on environment of biological systems for both plant and animal to establish the knowledge base needed for decision making in the field of Agribusiness. Like the introductory course, this course is not a traditional biology course. The State Board of Education has deemed completion of both this course and the previous applied biological systems introductory course eligible for one embedded science credit if standards are met, a program review has been completed, the teacher is appropriately certified and embedded curriculum is approved by the district's local governing board. It is required that these standards are covered in a minimal two-sequence to earn on embedded science credit.

**Introduction to Engineering Dual Enrollment (Grade 12)**

1 CREDIT

Engineering 102 with University of Arizona

The emphasis of this course is to introduce prospective engineering students to the various disciplines associated within the field of engineering, via classroom study, field research, and hands-on lab activities/projects, while applying fundamental mathematical, engineering, and physics principles relevant to the engineering profession. Note: This course is a yearlong study offered by YCHS through the University of Arizona's Engineering Outreach College program and has been structured directly from the current Arizona State Science Standards, Common Core Standards, and the Next Generation Engineering/Science Standards requirements. Students who apply and successfully pass the class, have the opportunity to obtain three (3) college level accredited credits (UA fee tuition is \$495.00), that will be recognized at the major Arizona Universities. Prerequisites by U of A: Solid background in Algebra I & II, as well as Geometry.

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## SOCIAL STUDIES

Yuma Catholic requires that all students earn three years of Social Studies credits in the following courses: World History, United States/Arizona History, Government/ Economics.

### **World History / Geography (Grade 10)**

1 CREDIT

This course is a survey of World History from the beginning of time until the dawn of the modern world. It examines the origins of humanity, the rise of and fall of civilizations, development of belief systems, and the increasing complexity of human society. This course emphasizes the vast changes that have occurred throughout the past and how that affects the world today. Students will gain an understanding and appreciation of history and recognize how the past has shaped our lives. Additionally, students will learn various geographical concepts by mapping the world throughout various eras.

Prerequisite: None

### **World History / Geography Honors (Grade 10)**

1 CREDIT

This course is a survey of World History from the beginning of time until the dawn of the modern world. It provides an accelerated examination of the origins of humanity, the rise of and fall of civilizations, development of belief systems, and the increasing complexity of human society. This course emphasizes the vast changes that have occurred throughout the past and how that affects the world today. Students will gain an understanding and appreciation of history and recognize how the past has shaped our lives. Additionally, students will learn various geographical concepts by mapping the world throughout various eras. Some prior knowledge of the subject matter is assumed.

Prerequisite: English I Honors or Teacher Recommendation

### **American / United States History (Grade 11)**

1 CREDIT

This course is a fast-paced in-depth survey of United States History designed for eleventh grade honors students. During the course, the students will explore the geographic, political, economic, and social characteristics of American history from the Hopi and the Apache to the European exploration to the War of Independence to the Civil War to the twenty-first century with the Cold War, the Energy Crisis, 9/11, The War On Terror and the Information Age. All major topics of American History will be uncovered and studied.

Prerequisite: World History

**American / United States History Dual Enrollment** (Grade 11)  
History 121 and 122 with Arizona Western College

1 CREDIT

This course is a fast-paced in-depth survey of United States History designed for eleventh grade honors students in two semesters. During the course, the students will explore the geographic, political, economic, and social characteristics of American history from the Hopi and the Apache to the European exploration to the War of Independence to the Civil War to the twentieth century with the Cold War, the Energy Crisis, and the Information Age. All major topics of American History will be uncovered and studied. *This course requires student to dual enroll with Arizona Western College and pay AWC tuition.*

Prerequisite: Appropriate AWC placement test score

**Free Enterprise/American Government** (Grade 12)

1 CREDIT

This course is an examination and evaluation of both American and International Economic Systems. Students will be exposed to and become knowledgeable in economic areas to include but not limited to ; money and banking , government's role in the economy , different economic concepts , labor versus management , understanding fiscal policy , taxes, debt , individual economic plans , international trade , and the role of law in economics.

The second semester of this course is designed to expose students to the powers and responsibilities of the legislative, executive, and judicial branches of government and the relationship between the national and state operation of governments in general. The first semester of this course consists of an in-depth survey of Civics for twelfth grade. During this course, the students will explore the foundations of citizenship; their civic duties as a U.S. citizen, U.S. History from colonial times to present day, and U.S. Government from its inception to present day.

Prerequisite: World History and US History

**Free Enterprise Honors /American Government Honors** (Grade 12)

1 CREDIT

This course is an examination and evaluation of both American and International Economic Systems. Students will be exposed to and become knowledgeable in economic areas to include but not limited to ; money and banking , government's role in the economy , different economic concepts , labor versus management , understanding fiscal policy , taxes, debt , individual economic plans , international trade , and the role of law in economics.

The second semester of this course consists of a fast-paced, in-depth survey of Civics for twelfth grade honors students. During this course, the students will explore the foundations of citizenship; their civic duties as a U.S. citizen, U.S. History from colonial times to present day, and U.S. Government from its inception to present day.

Prerequisite: World History and US History

**Introduction to Psychology / Dual Enrollment** (Grade 11, 12)  
Psychology 101 with Arizona Western College

0.50 CREDIT

Although basic theories are included, the course emphasizes the relationship between the material discussed and everyday life. Areas covered are history and systems, scientific methods, development processes, perception, learning, memory, basic statistics, intelligence and personality testing, motivation, conflict and frustration, mental disorders and therapy, and social psychology. *This course requires student to dual enroll with Arizona Western College and pay AWC tuition.*

Prerequisite: Appropriate AWC placement test score

**Introduction to Philosophy / Dual Enrollment** (Grade 11, 12)  
Philosophy 101 with Arizona Western College

0.50 CREDIT

The course examines the central issues and literature in philosophy. Subjects will include, but are not limited to: God and human nature, mind and free will, knowledge and reality, ethics and the good life, justice and the ideal state. The emphasis is primarily placed on the Western philosophical tradition. *This course requires student to dual enroll with Arizona Western College and pay AWC tuition.*

Prerequisite: Appropriate AWC placement test score

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## MODERN LANGUAGE

The study of language fosters an appreciation and respect for other cultures and peoples, their histories, and their ethnic makeup. The student thus becomes a better-informed citizen of his or her own country and may be at an advantage in a number of professional and commercial areas. Language study is highly recommended for the linguistic, cultural, and practical benefits it offers. Modern languages are not easy to study. It involves daily drills and memorization and, because of its cumulative nature, a student must be willing to put in that daily time and effort to succeed.

**Spanish I** (Grades 9, 10, 11) 1 CREDIT

This class is an introduction to the Spanish language and culture of Spanish speaking countries. At this level the tools for developing proficiency in the four primary language areas of listening, speaking, reading, and writing are presented.

Prerequisite: None

**Spanish II** (Grade: 10, 11, 12) 1 CREDIT

This class is designed to build on the linguistic proficiency and cultural sensitivity introduced in Spanish I. By inter-weaving language and culture, students' communication skills will be broadened. Course objectives include the development of the students' conversational skills inside the classroom as well as outside the classroom experience.

Prerequisite: Spanish I, or teacher recommendation

**Spanish III** (Grade 10, 11, 12) 1 CREDIT

Spanish III provides a broad spectrum of information about the everyday Spanish speaking people of the world. The goal is to familiarize students with universal ideas and culture from Spanish Speaking Countries.

Prerequisite: Spanish I and II, or teacher recommendation

**Spanish IV** (Grade 11, 12) 1 CREDIT

Spanish IV provides a broad spectrum of information about the everyday Spanish speaking people of the world. The goal is to familiarize students with universal ideas and culture from Spanish Speaking Countries.

Prerequisite: Spanish III, or teacher recommendation

**Spanish Fluent Speakers I** (Grade 10, 11, 12) 1 CREDIT

Spanish provides a broad spectrum of information about the everyday Spanish speaking people of the world. The goal is to familiarize students with universal ideas and culture from Chicano Literature. Prerequisite: Teacher or counselor recommendation



**Spanish Fluent Speakers II (Grade 10, 11, 12)**

1 CREDIT

Spanish provides a broad spectrum of information about the everyday Spanish speaking people of the world. The goal is to familiarize students with universal ideas and culture from Chicano Literature.

Prerequisite: Spanish Fluent II, Teacher or counselor recommendation

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## FINE ARTS

### Performing Arts

Currently YCHS offers both instrumental and choral classes. Applying rigorous music standards in combination with numerous concerts, sports performances and community involvement, students will develop human qualities such as self-discipline, self-confidence, and the ability to work towards a common goal.

#### **Band / Orchestra** (Grade 9, 10, 11, 12)

1 CREDIT

This 2 semester class is a performance based class which focuses on the basic acquisition and mastering of instrumental performance techniques. Student musicians perform various genres of music and styles in ensemble and solo formats. Concerts are the ultimate goal and are the motivation for mastering the skills, techniques and strategies in instrumental music performance.

In addition to mastering and performing music in a formal concert setting, the class also incorporates music theory, or the foundation for why music is music. Theory is vital and essential to the individual and ensemble growth that takes place in instrumental music. Other aspects of music learning in this class will be: rhythm and coordination, breathing (anatomy and physiology), listening and reflecting on various styles of music including world music and practice procedures and routines.

Prerequisite: Performance in junior high/middle school band, audition and previous experience in performing ensembles.

Required: Instrument

#### **Guitar I** (Grade 9, 10, 11, 12)

1 CREDIT

This 2 semester class is a performance based class which focuses on the basic acquisition and mastering of instrumental performance techniques. Student musicians perform various genres of music and styles in ensemble and solo formats. Concerts are the ultimate goal and are the motivation for mastering the skills, techniques and strategies in instrumental music performance.

In addition to mastering and performing music in a formal concert setting, the class also incorporates music theory, or the foundation for why music is music. Theory is vital and essential to the individual and ensemble growth that takes place in instrumental music. Other aspects of music learning in this class will be: rhythm and coordination, basic composition and improvisation, listening and reflecting on various styles of music including world music and practice procedures and routines.

Prerequisite: None

Required material: Acoustic guitar

**Guitar II (Grade 9, 10, 11, 12)**

1 CREDIT

This yearlong class is for intermediate to advanced guitar students. In this class, students master and refine proper guitar technique, advanced note reading and notation, minor/augmented/blues/modal scales, 7<sup>th</sup>/jazz chords and advanced ensemble music. Performances both in class and to the public are also expected and vital to the growth of individual student musicians and the ensemble. Several concerts are planned throughout the year and all performances are mandatory for all students. Advanced Music theory, basic instrumental maintenance and pre college composition will also be taught. Musicianship to the highest degree will be expected by all students and this course may be repeated credit. Students must provide their own guitar and only acoustic guitars will be permitted. No electric guitars or amplifiers.

Prerequisite: Successful completion of Guitar I with a grade of C or higher and/or audition

Required material: Acoustic guitar

**Concert Choir (Grade 9, 10, 11, 12)**

1 CREDIT

This 2 semester class is a performance based class which focuses on the basic acquisition and mastering of vocal performance techniques. Student musicians perform various genres of music and styles in ensemble and solo formats. Concerts are the ultimate goal and are the motivation for mastering the skills, techniques and strategies in vocal music performance. In addition to mastering and performing music in a formal concert setting, the class also incorporates music theory, or the foundation for why music is music. Theory is vital and essential to the individual and ensemble growth that takes place vocal music. Other aspects of music learning in this class will be: rhythm and coordination, breathing (anatomy and physiology), listening and reflecting on various styles of music including world music and practice procedures and routines.

Prerequisite: None

**Drama (Grade 9, 10, 11, 12)**

1 CREDIT

This year long, foundational class, designed for students with little or no theatre experience, promotes enjoyment and appreciation for all aspects of theatre. Classwork focuses on the exploration of theatre literature, performance, historical and cultural corrections, and technical requirements. Improvisation, creative dynamics, and beginning scene work are used to introduce students to acting and character development. Incorporation of other art forms in theatre also helps students gain appreciation for other art forms such as music, dance and visual art. Drama provides opportunities for students to develop skills in critical listening and thinking, as well as stage presence, ensemble work, and aesthetic awareness culminating in frequent classroom and public performances.

**MUS 120: Music Appreciation (Grade 9, 10, 11, 12)**  
**Concurrent Enrollment with Arizona Western College**

0.50 CREDIT

This course is designed to help students learn new ways of listening to music in order to better understand our rich musical heritage. While music of all kinds will be studied, art music will be the primary focus. No prior musical training is required.

### **Visual Arts**

Art classes are designed to develop and broaden critical and creative thinking skills, understanding of and appreciation for the visual arts and culture and increase students' proficiency in visual art techniques and processes. Students will earn the art credit needed to graduate from Yuma Catholic High School by completing FOUNDATIONS OF ART & DESIGN.

Once the student completes the art credit they will now have completed the prerequisites to enroll in any of the art classes available for the following year(s). Ceramics, Drawing, and Painting can be taken next.

**Foundations of Art and Design (Grades 9, 10, 11, 12)**

1 CREDIT

Students are offered the opportunity to explore various visual art forms and techniques in an introductory level course through the elements and principles of art and design. Students will be introduced to a variety of media through two-dimensional and three-dimensional approaches to creating and responding to visual arts.

Prerequisite: None.

**Foundations of Art and Design II (Grades 9, 10, 11, 12)**

1 CREDIT

Students will continue to explore various visual art forms and techniques through the elements and principles of art and design. Students will continue to build and apply their skills, knowledge, and methodology to a variety of media through instructional activities that will develop and shape a foundation in visual arts.

Prerequisites: Prior successful completion of Foundations of Art & Design I is required.

**Painting (Grade 10, 11, 12)**

1 CREDIT

Fundamentals of Painting: This course examines the basic and intermediate techniques, mediums, materials and vocabulary of painting. Students will initiate the course by learning and performing the basic motor functions and techniques of painting. The course content will also include the aspects color theory and the techniques of creating colors. The students will progress during the course by combining their learned skills and understanding of painting to build a foundation that serious and experienced painter's hold.

Advanced painting: This course reviews the intermediate techniques, mediums, materials and the vocabulary of painting. The class will continue by examining the advanced levels of painting techniques, mediums, materials and vocabulary. The course content will also include the aspects color theory and the techniques of creating colors. The students will progress during the course by demonstrating their strong foundation of painting to continue into the advanced part of painting. The advanced section will perform some of the same projects as the beginning with greater expectations, more detail and superior context along with independent studio work. Prerequisite: Foundations of Art and Design

**Ceramics (Grade: 10, 11, 12)**

1 CREDIT

Ceramics I: Throughout the course the students will be exposed to different types of artworks, techniques and terms dealing with ceramics. At the end of the course the students will be able to recognize, discuss, and write about ceramic artworks done inside and outside of the classroom. Students will also be able to understand and be able to perform basic ceramic techniques. Such techniques are used in the hand-building process. Ceramics II: Students will continue the ceramic learning process started in Ceramics I by combining techniques, progressing on the potter's wheel, exploring more creative avenues as well as their own creative and imaginative processes and studying ceramic artists and styles. Ceramics III: Ceramics III students will refine all skills learned in I and II, begin to develop a personal style, defend works of clay by employing the elements and Principles of Art and their own aesthetics. During the year they will produce a related series of ceramic pieces, an interactive piece, reports on ceramics artists, as well as independent study pieces. Ceramics IV: Students will be assigned advanced projects require deep context, advanced skill, and attention to detail. The ceramic IV students will be more independent than students in lower-level ceramic courses. These students will be expected to guide beginning students and help those students with new techniques.

Prerequisite: Foundations of Art and Design

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## OTHER

### **College Preparatory Workshop (Grade 12)**

0.50 CREDIT

This course will assist in preparing and educating 12th graders about the college and scholarship application process. This course will provide support in completing admissions applications, including constructing a well-written personal essay that is required for most applications. Students will develop a resume as well as personal statements, which are necessary for a number of scholarships. They will also have an opportunity to research colleges and universities, so that they are able to find an educational institution that meets their needs and desires. This course will also provide test preparation for the ACT and SAT. A number of useful resources will be available for the students to checkout, to guide them through the college admissions process. Financial aid options will be explored throughout the course. Students will also learn life skills that will be useful in college life.

### **Critical Thinking (Grade 9,10,11,12)**

1 CREDIT

Adaptive and flexible thinking are valuable assets in today's world. This course looks at the nature of creativity and creative problem solving in both individual and group forms. The framework for creative problem solving will be based on the Odyssey of the Mind program, a worldwide creative problem solving competition that is sponsored by NASA and aligns with STEM (Science, Technology, Engineering, and Math) curriculum. Particular attention will be given to identifying and defining problems, productive thinking, teamwork in problem solving, and designing and implementing the solution to short term (spontaneous) and a long-term problem.

### **Dance (Grade 9,10,11,12)**

1 CREDIT

Each student will be able to pick music, create choreography and make up their own dance. With this they will perform in front of their peers. Assigned dance attire is required, along with performance participation.

Prerequisite: None

### **Freshman Seminar (Grade 9)**

0.50 CREDIT

*This course is required for all freshmen students. (1 semester)*

During Freshman Seminar, students will learn skills in study/learning techniques, note-taking skills, organizational methods, and computer literacy while beginning the process of college and career planning.

**Health and Wellness (Grade 9)**

0.50 CREDIT

*This class is required for all freshmen students. (1 semester)*

This course is designed to increase the student's awareness and knowledge as to proper physical and mental health, especially in relationship to the individual. Topics include a study of the body's structure and needs, mental health, illness, family living, communicable diseases and subjects especially of interest to students such as alcohol, drugs, tobacco and sexual development.

**Physical Education (Grade 9, 10, 11, 12)**

1 CREDIT

This class is designed as an introductory course for student athletes. A core set of exercises will be taught which enhance flexibility and strength. A specialized group of exercises will also be taught for overall improvement. Speed and agility movements will be part of the program with emphasis will be on introduction to sports.

Prerequisite: None

**Weight Training (Grade 9, 10, 11, 12)**

1 CREDIT

This class is designed as an introductory course for student athletes. A core set of exercises will be taught that enhance power and overall strength. A specialized group of exercises will also be taught for reducing the risk of injury. Speed and agility movements will be part of the program but an emphasis will be placed on the introduction and repetition of basic weight training and core strengthening movements.

Prerequisite: None

**Yearbook (Grade 9, 10, 11, 12)**

1 CREDIT

In this course students will gain skills in one or more of the following areas: page design, advanced publishing techniques, copywriting, editing and photography while producing a creative, innovative yearbook which records school memories and events. There is an emphasis on journalism skills in this class! Participants gain useful, real world skills in time management, marketing, teamwork, and design principles.

Prerequisite: Teacher permission