

**YUMA CATHOLIC HIGH SCHOOL  
COURSE CURRICULUM GUIDE  
2022-2023**



Yuma Catholic High School offers a challenging, high quality course of study for all students. Yuma Catholic believes that a comprehensive curriculum is necessary to meet the needs of all our students while preparing them for their post-secondary education. Please carefully review the entire document.

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

**STUDENTS AND PARENTS:**

Please remember that wise judgment, careful inquiry, and ongoing communication will facilitate selecting the best course of study to meet the needs of the student.

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 one of a sequence that will provide me with the degree of proficiency I will need.
  - ◆ This course is the kind that will challenge my abilities.
-

## TABLE OF CONTENTS

<b>REGISTRATION PROCEDURES</b>	<b>2</b>
<b>COURSE SELECTION/SCHEDULE CHANGE POLICY</b>	<b>3</b>
<b>DUAL ENROLLMENT COURSES</b>	<b>4</b>
<b>HONORS COURSES</b>	<b>4</b>
<b>COLLEGE ADMISSION REQUIREMENTS</b>	<b>4</b>
<b>GRADUATION REQUIREMENTS</b>	<b>5</b>
<b>REPETITION OF COURSES OPTIONS</b>	<b>6</b>
<b>COLLEGE/CAREER PLANNING OPPORTUNITIES</b>	<b>6</b>
<b>COURSE DESCRIPTIONS</b>	<b>7</b>
THEOLOGY	7
ENGLISH	9
MATHEMATICS	12
SCIENCE	17
SOCIAL SCIENCES	22
MODERN LANGUAGE	24
FINE ARTS	26
PHYSICAL EDUCATION	29
CTE	30
Electives	33

---

## **REGISTRATION PROCEDURES**

This curriculum guide has been prepared to assist you in registration for the 2021-2022 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 teacher/s in that area of study. Students must take both semesters of year-long classes. There are seven periods in one day.

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.

Be sure to consult the graduation and college admission requirements on the following pages. If you have questions, contact the Counseling Office.

---

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

All schedule changes require written (verified) approval of the counselor, the teachers, and a parent. All student initiated changes must take place within the first 5 days of the semester. All changes after the 5-day deadline must be teacher initiated or involve a conference with the counselor, teacher, and parent; the Principal's signature is also required.

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.

---

## **DUAL ENROLLMENT COURSES**

Dual Enrollment (DE) courses are college courses held on campus. The DE courses are taught by Yuma Catholic high school faculty who have met the Higher Learning Commission and community college qualifications.

---

## **HONORS COURSES**

Honors courses are designed for students who are both proficient and capable in their reading, writing, and mathematical 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.

---

## **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 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. Begin planning early for college so you will have the necessary requirements when it is time to apply to the colleges of your choice. Parents and students should check individual institutions for specific requirements and work closely with YCHS's counseling office as well as college counselors.

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 students consider the following requirements:**

<b><u>Yuma Catholic High School</u></b> <b>Requirements for Graduation</b> <b>24 credits</b>	<b>Core requirements for</b> <b>regional colleges and</b> <b>universities</b>	<b>Highly Selective University</b> <b>Systems</b>
<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 or CTE</li> <li>• 1 Yr. PE</li> <li>• 1 Yr. Fr. Seminar</li> <li>• 2 Yrs. Mod. Language</li> <li>• 1 Elective</li> </ul>	<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 (American History required)</li> <li>• 3 Yrs. Science</li> <li>• 1 Yr. Fine Art or CTE</li> <li>• 2 Yrs. Modern Language (same lang.)</li> </ul>	<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>• 3 Yrs. Modern Language (same language)</li> <li>• 1 Yr. Fine Art</li> <li>• Adequate ACT/SAT score</li> </ul>

**\*\*Refer to the following links to view the in-state universities' admission requirements:**

**NAU** <https://nau.edu/admission/freshman-admission-requirements/>

**ASU** <https://admission.asu.edu/first-year/apply>

**UofA** <https://admissions.arizona.edu/>

## REPETITION OF A COURSE

No Credit (NC) will be given for any grade below 60%. Students must recover credits for any failed courses within one academic semester. Students may take recovery courses via an online accredited high school or at Yuma Catholic. Students must check with counselors first for approval.

### Grade Replacement Option:

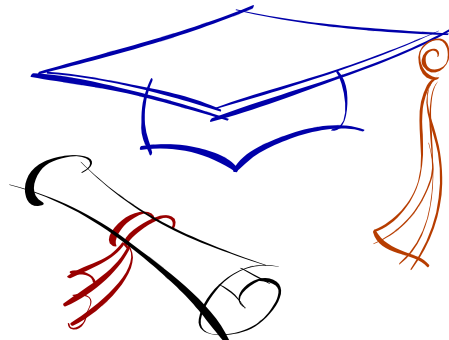
Students seeking to improve their GPA may re-take two semester courses (a total of one credit). The higher grade will replace the lower grade. The course taken must match the course it is replacing (including Honors and Dual Enrollment courses). Please see counselors for approval.

---

## COLLEGE/CAREER PLANNING OPPORTUNITIES

The Counseling Office is an excellent resource for students to learn about all aspects of the career/college planning process. Students and parents are encouraged to work closely with the guidance counselors and the college admissions specialist/counselor throughout their high school years in regard to post-secondary planning.

The Counseling Office is available for locating 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

---

### THEOLOGY

Theology courses are based upon the Doctrinal Elements of the Curriculum Framework of the United States Conference of Catholic Bishops (USCCB). Four Theology credits are required for graduation.

**Introduction to Catholicism** (Grade: 9)

1 CREDIT

Rooted in the Scriptures and the Nicene Creed, this course will provide students with a systematic introduction to theological themes of our Catholic faith. Beginning with our understanding of God and of the human person as revealed in the Genesis creation accounts, students will progress through a survey of such topics as faith and reason, revelation, creation, original sin, the person of Jesus, the Paschal Mystery, the Trinity, Mary, the sacraments, and prayer.

**Understanding Scripture** (Grade: 10)

1 CREDIT

The purpose of this course is to give students a general knowledge and appreciation of Sacred Scriptures. Through the study of the Bible the students will come to encounter the living word of God's Plan for Salvation for humankind. It is in God's plan that the Bible, which is authored by God through inspiration to human beings, has such a spiritual and direct value to people throughout the world. The major sections of the Bible and the books included in each section will be studied to understand the time and interaction of those given this divine inspiration. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally and understand God's love for us through Christ's sacrifice on the cross.

**Our Moral Life in Christ** (Grade: 11)

1 CREDIT

Our Lord Jesus Christ calls all Christians to "be perfect, as your heavenly Father is perfect (Mt 5:48)." This course offers a two-part approach to studying the meaning and implications of our Lord's mandate. First, it examines the principles of moral theology. Then it surveys the significance of the Ten Commandments. Since keeping the commandments is one requirement for entering into eternal life (Mt 19:17), emphasis is placed on understanding and following the moral law.

**Social Doctrine of the Catholic Church** (Grade: 12)

0.50 CREDIT

The purpose of this course is to introduce students to the Church's social teachings as presented in the Catechism of the Catholic Church and in the church's Magisterial documents. In this course, students are to identify and learn how Christ's concern for others during his time on earth, especially the poor and needy, is present today in the Church's social teaching and mission.

**Ecumenism** (Grade: 12)

0.50 CREDIT

The purpose of this course is to examine the teachings of the Catholic Faith on God's desire to unite all humanity to himself and to each other through his Church. Focusing primarily on the *Catechism* and the documents of the Second Vatican Council, it includes both ecumenism—action toward reuniting separated Christians—and interfaith dialogue—relations with non-Christians.

**Philosophy of Religion/Dual Enrollment** (Grade: 12)

0.50 CREDIT

PHI 233 with Arizona Western College

This course is a critical examination of religious claims and phenomena. Topics include, but are not limited to: the nature and existence of God; the epistemology of religious belief; the possibility of miracles, life after death, and mystical experience; as well as the interrelationship between ethics, values, and religion.

*Prerequisite:* ENG 101 or 107

---



## ENGLISH

The following English course descriptions reflect Arizona College and Career Readiness Standards for English Language Arts. The English department strives to develop student potential in the areas of reading, writing, language, and speaking thus enabling students to be effective communicators. Four English credits are required for graduation.

**English I: Survey of Literature** (Grade: 9) 1 CREDIT

This course is designed to give students an introductory knowledge of English classics and contemporary reads while developing insightful and analytical skills to help interpret texts deeper. Students will also develop vocabulary, grammar, language, research, and writing skills that align themselves with the Arizona College and Career Standards.

**English I Honors: Survey of Literature** (Grade: 9) 1 CREDIT

This course is designed to give students an introductory knowledge of English classics and contemporary reads while developing insightful and analytical skills to help interpret texts deeper. Students will also develop vocabulary, grammar, language, research, and writing skills that align themselves with the Arizona College and Career Standards. Students will read and analyze two novels as well.

**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. Another literary text is Oedipus Rex by Sophocles. There will be a minimum of three on-demand writing assessments and one research project.

**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. Another literary text is Oedipus Rex by Sophocles. There will be a minimum of three on-demand writing assessments and one research project. Included to be read on the Honors level will be two novels.

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

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

1 CREDIT

During their exploration of American literature, English III students will read and write about literature that reflects the country's eras of Indian/Native mythology, Romanticism, and Realism. Students will also read and carefully analyze a challenging range of American nonfiction and fiction prose selections, deepening their awareness of how rhetoric affects both themselves and the audiences with which they communicate. English III students will develop their ability to write and speak with a greater awareness of purpose and strategy. Compositions will demonstrate a student's proficiency in the use of organization, style, vocabulary, and conventions. Students in English III will also be challenged to expand their skills in speaking, listening, and doing independent research.

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

1 CREDIT

During their exploration of American literature, English III students will read and write about literature that reflects the country's eras of Indian/Native mythology, Romanticism, and Realism. Students will also read and carefully analyze a challenging range of American nonfiction and fiction prose selections, deepening their awareness of how rhetoric affects both themselves and the audiences with which they communicate. English III students will develop their ability to write and speak with a greater awareness of purpose and strategy. Compositions will demonstrate a student's proficiency in the use of organization, style, vocabulary, and conventions. Students in English III will also be challenged to expand their skills in speaking, listening, and doing independent research. Because this course is an honors class, performance expectations are appropriately high. Readings will often be completed outside of class and followed by in-class quizzes.

*Prerequisite:* Grade B or better in English II Honors and/or teacher recommendation

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

1 CREDIT

This course 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 101 and English 102 /Dual Enrollment (Grade 12)**  
ENG 101 and 102 with Arizona Western College

1 CREDIT

This writing intensive course 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.

*Prerequisite:* If not on honors track, must receive English teacher recommendation.

---

## MATHEMATICS

The focus of mathematics curriculum involves the development of logical reasoning and problem-solving skills. The use of technology helps students to discover, analyze and make logical connections among mathematical concepts. Four Math credits are required for graduation.

### **Algebra I** (Grade: 9)

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 linear equations and graphs, linear inequalities and graphs, absolute value equations and graphs, linear functions, systems of linear equations and inequalities, matrices, quadratic functions, and an introduction to polynomial functions. TI 84 graphing calculator is required for this course.

### **Algebra I Honors** (Grade: 9)

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 linear equations and graphs, linear inequalities and graphs, absolute value equations and graphs, linear functions, systems of linear equations and inequalities, matrices, quadratic functions, and an introduction to polynomial functions. TI 84 graphing calculator is required for this course.

*Prerequisite:* Pre-Algebra Standard, placement test, and teacher recommendation

### **Geometry** (Grades: 9, 10)

1 CREDIT

Emphasis of this course is on deductive and inductive reasoning, logic. The course includes the role of assumption, definitions and theorems in a mathematical system, congruence of polygons. Also included is an introduction to coordinate and three-dimensional geometry, plus the properties of right triangles, trigonometry and transformations of geometric figures. Technology and a hands-on approach are used to attain mastery of standards. TI 84 graphing calculator is required for this course.

*Prerequisite:* Algebra I Standard plus teacher recommendation

**Geometry Honors (Grades: 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. TI 84 graphing calculator is required for this course.

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

**Algebra II (Grades: 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, linear functions, and linear systems. Semester 2 topics will include quadratic functions, and polynomial functions. TI 84 graphing calculator is required for this course.

**Algebra II Honors (Grades: 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 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. TI 84 graphing calculator is required for this course.

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

**Intermediate Algebra/Dual Enrollment (Grades: 10, 11)**

1 CREDIT

MAT 121 with Arizona Western College

Logical development of the laws of algebra, factoring linear equations, simultaneous equations, functions and graphs, exponents and radicals, quadratic equations. TI 84 graphing calculator is required for this course.

*Prerequisite: If not on honors track, must receive Math teacher recommendation.*

**College Mathematics with Applications** (Grades: 10, 11)  
MAT 142 with Arizona Western College

0.50 CREDIT

Applications in statistics, probability, finance, discrete mathematics and other selected topics of interest in management science, voting systems, and geometry. TI 84 graphing calculator is required for this course.

*Prerequisite:* If not on honors track, must receive English 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. TI 84 graphing calculator is required for this course.

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

1 CREDIT

This course is intended to provide the mathematics 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. TI 84 graphing calculator is required for this course.

*Prerequisite:* "A" average in Algebra II or "B" average or better in Algebra II Honors plus teacher recommendation

**College Algebra /Dual Enrollment** (Grades: 9, 10, 11, 12)  
MAT 151 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. TI 84 graphing calculator is required for this course.

*Prerequisite:* If not on honors track, must receive Math teacher recommendation.

NOTE: Credit cannot be received in both MAT 151 and MAT 187

**Plane Trigonometry /Dual Enrollment** (Grades: 9, 10, 11, 12) 0.50 CREDIT  
MAT 183 with Arizona Western College

A study of trigonometric functions, equations, identities, and inverse functions, and solutions of right and oblique triangles. TI 84 graphing calculator is required for this course.

*Prerequisite:* If not on honors track, must receive Math teacher recommendation.

NOTE: Credit cannot be received in both MAT 151 and MAT 187

**Precalculus /Dual Enrollment** (Grades: 9, 10, 11, 12) 1 CREDIT  
MAT 187 with Arizona Western College

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. TI 84 graphing calculator is required for this course.

*Prerequisite:* If not on honors track, must receive Math teacher recommendation.

NOTE: Credit cannot be received in both the MAT 151, MAT 183 sequence and MAT 187

**Calculus I with Analytic Geometry /Dual Enrollment** (9, 10, 11, 12) 1 CREDIT  
MAT 220 with Arizona Western College

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. TI 84 graphing calculator is required for this course.

*Prerequisite:* MAT 150 or MAT 187 or MAT 151 and MAT 183

**Calculus II with Analytic Geometry /Dual Enrollment** (Grades: 9, 10, 11, 12) 1 CREDIT  
MAT 230 with Arizona Western College

Applications of the integral, techniques of integration, parametric and polar form, convergence of series, Taylor and MaLauren series. TI 84 graphing calculator is required for this course.

*Prerequisite:* MAT 220

**Calculus III with Analytic Geometry /Dual Enrollment** (Grades: 10, 11, 12) 1 CREDIT  
MAT-241 with Arizona Western College

Study of multivariable calculus, parametric curves, partial differentiation, multiple integration, and an introduction to vector calculus. TI 84 graphing calculator is required for this course.

*Prerequisite:* MAT 230

**Applied Statistics /Dual Enrollment** (Grades: 10, 11, 12)  
MAT 270 with Arizona Western College

1 CREDIT

Introduces descriptive and inferential statistics such as graphical and quantitative description of data, discrete probability distributions, continuous probability distributions, one- and multi-sample hypothesis tests, confidence intervals, correlation, simple linear regression, and analysis of variance. TI 84 graphing calculator is required for this course.

*Prerequisite:* MAT 142 or approved higher level math

---



## SCIENCE

Students explore the world through a comprehensive science curriculum. Special emphasis is placed on understanding the concepts of each field of science through lecture, experimentation, hands-on lab activities, and class discussion. Three Science credits are required for graduation.

### **Introduction to Lab Science** (Grades: 9, 10)

1 CREDIT

This is a required freshmen science course intended to introduce students to lab science while providing a foundation for biology, chemistry, and physics. Integration of mathematics and science is stressed since it is essential to success in further study of science. Practicing basic lab skills and using techniques and tools of science students explore earth and space, the nature of matter and its changes, motion and energy.

### **Earth & Space Sciences** (Grades: 9, 10)

1 CREDIT

This course is an alternative lab course for those who have demonstrated Science skills that are higher than those with little to no science background, and have a firm grasp of various science concepts, to include the Scientific Method Process, Metric Measurement System, and basic science foundation concepts. However, this may be a mandated course for the sophomore student that may need some type of lower level science involving the related subject areas addressed within this course. The core focus of this course is to develop an understanding of various concepts, by an in-depth study of this planet's Geology, Oceanography, Meteorology, Astronomy, and Environmental sciences, with associated laboratory reinforcement.

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

1 CREDIT

This course is a lecture-discussion-activity-laboratory course with an emphasis on investigation and inquiry as a means of acquiring knowledge. The philosophy of the course is to expose students to the study of the microscopic world of animals, plants, ecology, physiology, anatomy, etc. The course offers basic information that will allow students to pursue specific areas of biology in advanced courses. The scientific method is stressed, as is clear expression through writing in laboratory reports and research assignments.

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

1 CREDIT

The topics covered in the regular biology class are covered in greater depth, and more self-motivated study is expected of the student. Students may be expected to do a science project.

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

**Chemistry** (Grades: 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** (Grades: 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** (Grades: 11, 12)

1 CREDIT

This class is for any college bound student who is interested in the fields of math and science. Class and lab work will improve problem solving and creative thinking. Lectures and labs will cover the major topics of motion, light, magnetism, electricity, and energy. Additional topics will be covered as time permits. TI 84 graphing calculator is required for this course.

*Prerequisite:* Biology, Chemistry, and Algebra II

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

1 CREDIT

This course is recommended for students planning to study math, science, engineering, computer science, and any pre-med subjects at the college level. Lectures and labs covered will include motion, force, heat, optics, magnetism, electricity, wave motion and momentum. Additional topics will be covered as time permits. TI 84 graphing calculator is required for this course.

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

**College Physics I /Dual Enrollment** (Grades: 10, 11, 12) 1 CREDIT  
PHY 111 with Arizona Western College

This course is recommended for students planning to study math, science, engineering, computer science, and any pre-med subjects at the college level. Topics covered will include motion, force, heat, optics, magnetism, electricity, wave motion and momentum. Additional topics will be covered as time permits. TI 84 graphing calculator is required for this course.

*Prerequisite:* One of the following requirements: MAT 150 or MAT 187; MAT 183 and MAT 151

**College Physics II /Dual Enrollment** (Grades: 10, 11, 12) 1 CREDIT  
PHY 112 with Arizona Western College

Introduction to motion and interactions that change motion; introduction to mechanical energy, momentum, fluids, thermodynamics, and waves. TI 84 graphing calculator is required for this course.

*Prerequisite:* PHY 111

**Anatomy and Physiology Honors** (Grades: 11, 12) 1 CREDIT

This course will provide students with the understanding of fundamental structures and functions of the human body. It will serve as a background for students pursuing nursing, physical education, medical technology, and other health related professions. A chemistry background is recommended.

*Prerequisite:* Biology, Chemistry, or Chemistry concurrently

**Applied Biological Systems** (Grades: 9, 10, 11) 1 CREDIT

Students will have hands on labs and instruction that focuses on how plant and animal sciences play a key role in Biology. Emphasis will be on major biology components and how they relate to life. A Supervised Agricultural Experience Program (SAE) is required for all students. Students will participate in FFA where they will develop leadership and skills for career success.

**Agricultural Science (AgSci II)** (Grades: 10, 11, 12) 1 CREDIT

This course focuses on animal sciences as well as the history and trends in animal industries. Units include animal behavior, animal management, health, nutrition, reproduction, genetics, meat evaluation, and animal careers. Business principles of the animal industries are included. Students will participate in FFA where they will develop skills for leadership and career success.

The second semester of the course can be taken for college credit as the **Animal Industries/Dual Enrollment**.

ANS 100 with Arizona Western College

The livestock and poultry industries including applications of scientific principles, marketing, and selection are emphasized.

**Advanced Agricultural Science (AgSci III)** (Grades: 11, 12) 1 CREDIT

This course focuses on production agriculture including applications of scientific principles, marketing, and agriculture issues. Students will create an agriculture business plan that solves a current problem and market that business. Students will participate in FFA where they will develop skills for leadership and career success.

The second semester of the course can be taken for college credit as the **Agriculture Business Management/Dual Enrollment.**

AGB 230 with Arizona Western College

Applications of economic and technological principles in developing skills in decision making for the agricultural firm. Included is skill development in analysis, management by objectives, budgeting, and supervision of an agricultural business.

*Prerequisite:* Agricultural Science

**Plant Science/Dual Enrollment** (Grades: 12) 1 CREDIT

PLS 100 with Arizona Western College

Provides information on the importance of plant science in agriculture. Also provides basic information on the study of germination, emergence, growth, and reproduction of important economic species; and how these plant processes are influenced by the environment, such as soil-water-plant relations.

**Introduction to Geology 1 (Physical)/Dual Enrollment** (Grades: 10, 11, 12) 1 CREDIT

GLG 101 with Arizona Western College

Fundamental physical principles of the earth: the structure of its interior and crust, its rocks and minerals, and the processes affecting these features such as volcanoes, earthquakes, mountain formation, and erosion.

*Prerequisite:* If not on honors track, must receive English teacher recommendation.

**Introduction to Meteorology/Dual Enrollment** (Grades: 10, 11, 12) 1 CREDIT  
GPH 171 with Arizona Western College

Introduction to climate science covers all aspects of the climate system. It introduces the different components of the climate system, feedback loops, short-term and long term forecasting, planetary energy budget, detail analysis of greenhouse gases, global atmospheric and oceanic circulation patterns, and natural and anthropogenic influences on the climate balance.

*Prerequisite:* If not on honors track, must receive English teacher recommendation.

**Introduction to Climate Science/Dual Enrollment** (Grades: 10, 11, 12) 1 CREDIT  
GPH 213 with Arizona Western College

Weather Studies covers the composition and structure of the atmosphere, the flows of energy to, from, and through the atmosphere, and the resulting weather phenomena ranging in scale from local to regional to global. The physical principles of atmospheric phenomena are stressed in the understanding of weather's impact on humans, particularly with regard to severe weather. Methods of analysis are developed through the study of current weather as meteorological data.

*Prerequisite:* If not on honors track, must receive English teacher recommendation.

**General Biology (Majors) I /Concurrent Enrollment** (Grades: 12) 1 CREDIT  
BIO 181 with Arizona Western College

Principles of structure and function of living things at the molecular, cellular, and organismic levels of organization. Includes molecular and cellular biology, genetics, and viruses.

*Prerequisite:* If not on honors track, must receive English teacher recommendation. One year of high school chemistry or one semester of college-level chemistry recommended.

**General Biology (Majors) II /Concurrent Enrollment** (Grades: 12) 1 CREDIT  
BIO 182 with Arizona Western College

Additional principles of structure and function of living things at the molecular, cellular, organismic, and higher levels of organization. Includes evolution, organismal biology of bacteria, archaea, fungi, plants and animals, population biology, and ecology.

*Prerequisite:* BIO 181 and ENG 101 or 107

---

## SOCIAL SCIENCE

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

**World History / Geography** (Grade: 10) 1 CREDIT

This course is a study of civilization around the world. Students will understand the legacies of the past and how they affect our lives today, make connections from the past to the future, and see history through the arts. Additionally, students will learn various geographical concepts by mapping locations of the world.

**World History / Geography Honors** (Grade: 10) 1 CREDIT

This advanced course is a study of civilization around the world. Students will understand the legacies of the past and how they affect our lives today, make connections from the past to the future, and see history through the arts in greater detail and at an accelerated rate. A considerable amount of attention is given to world affairs. Additionally, students will learn various geographical concepts by mapping locations of the world.

*Prerequisite:* English I Honors or Teacher Recommendation

**American / United States History** (Grade: 11) 1 CREDIT

This course places particular emphasis on the contributions of all people in American Society from 1750 to the present. This fast-paced in-depth survey will explore geographic, political, economic, and social characteristics of American History

**History of the United States/Dual Enrollment** (Grade: 11) 1 CREDIT

HIS 121 and 122 with Arizona Western College

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 1750's to the War of Independence to the Civil War to the twentieth century with the Depression, Cold War, Energy Crisis, and the Information Age.

*Prerequisite:* If not on honors track, must receive English teacher recommendation.

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

1 CREDIT

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.

The second semester of this course consists of an in-depth study of the American Economic System. Students will explore the basics of our economic system; money and banking, government's role in our economy, the free market, and the history of American banking, labor market trends, benefits of free enterprise, gross domestic product, business cycles, taxes, understanding fiscal policy, and budget deficits, and the national debt.

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

1 CREDIT

The first 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.

The second semester of this course consists of a fast paced- in-depth study of the American Economic System. Students will explore our economic system; money and banking, government's role in our economy, the free market, and the history of American banking, labor market trends, benefits of free enterprise, gross domestic product, business cycles, taxes, understanding fiscal policy, and budget deficits, and the national debt.

*Prerequisite:* English III Honors or Teacher Recommendation

**Introduction to Psychology / Dual Enrollment (Grades: 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.

*Prerequisite:* If not on honors track, must receive English teacher recommendation.

## 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. Language study is highly recommended for the linguistic, cultural, and practical benefits it offers. Two Modern Language credits are required for graduation.

**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.

**Spanish II** (Grades: 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 Fluent I** (Grades: 9, 10, 11, 12) 1 CREDIT

This is a course designed to meet the academic needs of the student who has accomplished a high level of oral fluency. Vocabulary, grammar, and literary concepts are emphasized. The student is introduced to the genre of the short story, poetry, novel, Theatre Arts and the essay. The student will learn to read, write and speak, as well as participate in a continuous study of the most important aspects of Latino culture.

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

This course continues the learning from FL 1 at more rigorous level of reading, writing, and speaking. This course further develops the student's skills in speaking, reading and writing. The emphasis is on the application of complex grammatical structures, in-depth class discussions, advanced analytical compositions and challenging reading selections. The student continues studying various literary genres and continues to study the Latino culture.

*Prerequisite:* Spanish Fluent I



**Elementary Spanish 1/Concurrent Enrollment** (Grades: 9, 10, 11, 12) 1 CREDIT  
SPA 101 with Arizona Western College

Basic communication skills with emphasis on oral communication and elementary grammar. Students are exposed to the culture and traditions of the Spanish-speaking countries. Fulfills the first semester foreign language requirement at most four-year institutions.

**Elementary Spanish 2/Concurrent Enrollment** (Grades: 9, 10, 11, 12) 1 CREDIT  
SPA 102 with Arizona Western College

A continuation of Spanish 101. Basic communication skills with emphasis on oral and elementary grammar. Fulfills the second semester foreign language requirement at most four-year institutions.

*Prerequisite:* Spanish 101

---

**FINE ARTS**  
**FINE ARTS: PERFORMING ARTS**

One Fine Arts credit is required for graduation.

The music program at Yuma Catholic High School currently offers both instrumental and choral classes. Applying rigorous music standards in combination with numerous concerts, performances and community involvement; students will develop self-discipline, self-confidence, and the ability to work towards a common goal.

**Band / Orchestra** (Grades: 9, 10, 11, 12) 1 CREDIT

The primary purpose of the school band and orchestra is to perform seasonal concerts as well as provide music/entertainment for the various school events. Several concerts are planned throughout the year and all performances are mandatory. Music theory, basic instrumental maintenance and basic composition will also be taught. Musicianship to the highest degree will be expected by all students and this course may be repeated for credit.

Required: Instrument

**Guitar I** (Grades: 9, 10, 11, 12) 1 CREDIT

This yearlong class is for beginning to intermediate guitar students. In this class, students master proper guitar technique, note reading and notation, major scales, major/minor chords and ensemble music. Several concerts are planned throughout the year and all performances are mandatory. Music theory, basic instrumental maintenance and basic composition will also be taught. Musicianship to the highest degree will be expected by all students and this course may be repeated for credit. Students must provide their own guitar and only acoustic guitars will be permitted. No electric guitars or amplifiers.

**Guitar II** (Grades: 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. Several concerts are planned throughout the year and all performances are mandatory. 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 for 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

**Concert Choir** (Grades: 9, 10, 11, 12)

1 CREDIT

This yearlong class is for any student wishing to experience choral singing in a large ensemble format. In this class, students learn and master proper vocal technique, note reading and notation, vocal warm-ups, rounds, chords and ensemble music. Sacred, secular, pop, jazz and various other music styles will be explored and performed. Several concerts are planned throughout the year and all performances are mandatory. Music theory, basic vocal anatomy/physiology and basic composition will also be taught. Musicianship to the highest degree will be expected by all students and this course may be repeated for credit.

**Drama** (Grades: 9, 10, 11, 12)

1 CREDIT

This year long, foundational class, designed for students with little or no theatre experience, promotes learning of all aspects of theatre. Classwork focuses on the exploration of theatre: literature, performance, historical and cultural connections, and technical requirements. Improvisation, creative dramatics, and beginning scene work are used to introduce students to acting and character development. 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 periodic classroom and/or public performances.

**FINE ARTS: VISUAL ARTS**

Art classes are designed to develop critical and creative thinking skills, to foster an understanding of and appreciation for the visual arts and culture and to increase students' proficiency in visual art techniques and processes.

**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.

**Painting** (Grades: 10, 11, 12)

1 CREDIT

This course is designed for students interested in art and the development of their artistic ability. It is introductory in nature, enabling students to learn how to "see" art, thus heightening visual sensitivity. Art 1 provides an appreciation and exploration of the basic areas: drawing, design, and painting. Students will keep a sketchbook, portfolio and notebook demonstrating the exploration of the skills covered during the course.

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

1 CREDIT

Ceramics I is designed as an entry level course to instruct students in the basic hand building techniques as well as introduce the wheel for the creation of original functional and non-functional works in clay. Students will demonstrate a mastery of the proper hand building techniques through a body of completed work. A variety of finishes will be explored including glazing, painting and mixed media additions.

**Photography** (Grades: 9, 10, 11, 12)

1 CREDIT

This course introduces students to fundamental concepts of photography and digital image creation, while developing their “photographic eye”. Using digital cameras and Adobe Photoshop, students will learn to bring images into the “digital darkroom” while they complete a variety of photographic assignments through the exploration of the essentials of photography. Projects include: abstract works, collages, and manipulated images. This course requires a final portfolio of the student’s best work created throughout the year.

---

## PHYSICAL EDUCATION

Physical Education courses are offered to educate students about the benefits of an active lifestyle and to teach students to keep their bodies healthy through nutrition and exercise. One Physical Education credit is required for graduation.

### **Physical Education** (Grades: 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 flexibility and strength. A specialized group of exercises will also be taught for overall improvement. Students will be tested on fitness components throughout the year. Additionally, speed and agility movements will be part of the program with an emphasis on the introduction to sports.

### **Strength and Conditioning for Females** (Grades: 9, 10, 11, 12)

1 CREDIT

This class is designed as an introductory course for the female athlete. A core set of exercises will be taught which enhance power. A specialized group of exercises will also be taught for overall improvement. Speed and explosion movement will be part of the program. Emphasis will be on introduction and repetition of basic movements.

### **Strength and Conditioning for Males** (Grades: 9, 10, 11, 12)

1 CREDIT

This class is designed as an introductory course for the female athlete. A core set of exercises will be taught which enhance power. A specialized group of exercises will also be taught for overall improvement. Speed and explosion movement will be part of the program. Emphasis will be on introduction and repetition of basic movements.

---

## CTE COURSES

### **INTRODUCTION to ENGINEERING: Robotics** (Grades: 9, 10, 11, 12) 1 CREDIT

Introduction to Engineering: Robotics is a hands-on, project-based CTE course designed to give students a broad look into the field of engineering. The course will identify and explore the essentials of engineering, and expose students to different disciplines of engineering to gain an understanding of the type of work and skills engineers are required to use daily: problem solving, project management, communication, work styles, creativity, leadership, entrepreneurship, and ethics. Teamwork, cooperative learning, and 21st -century learning skills are used to explore the diverse careers associated with engineering and the engineering design process. In this course students will use basic coding, critical thinking skills and the engineering design process to solve problems while building and programming robots to perform a variety of tasks and challenges.

*Prerequisite:* Algebra 1 or teacher recommendation.

### **Introduction to Structured Programming/Dual Enrollment** (Grades: 10, 11, 12) 0.50 CREDIT

EGR 123 with Arizona Western College

This course introduces object-oriented programming and the C++ programming language. Students will create, document, run and debug programs using computer facilities on campus. Key topics include variables, classes, objects, selection, iteration, strings, arrays, pointers and functions.

*Prerequisite:* Either MAT 187 or both MAT 151 and MAT 183.

### **Fundamentals of Engineering Design/Dual Enrollment** (Grades: 10, 11, 12) 1 CREDIT EGR 188 with Arizona Western College

Engineering design, effective team participation and career preparation. Students are expected to participate in hands-on design projects, develop education/career plans and initiate development of the personal and management skills necessary for life-long learning.

*Prerequisite:* Either MAT 187 or both MAT 151 and MAT 183 or approved higher level math course

### **Unmanned Aerial Systems Pilot Ground School/Dual Enrollment** (Grades: 10,11,12) 0.5 CREDIT UAS 101 with Arizona Western College

The course provides the background required by the Federal Aviation Administration (FAA) in subject areas including: aerodynamics, aircraft performance, navigation, weather, and aviation regulations leading to pilot certification. Ground school preparation towards the Private Pilot and Unmanned Aerial Systems (UAS) Certificates.

**Agricultural Business Foundations and Leadership** (Grades: 11, 12)

1 CREDIT

This course introduces students to business management in agriculture. Mathematics, reading, and writing components are woven in the context of agriculture. Throughout the course are practical and engaging activities, projects, and problems to develop and improve business and employability skills. Additionally, students investigate and develop viable business plans in order to solve local problems. The business plan ideas are communicated to student peers and members of the professional community.

The second semester of the course can be taken for college credit as the **Agriculture Business Management**.

AGB 230 with Arizona Western College

Applications of economic and technological principles in developing skills in decision making for the agricultural firm. Included is skill development in analysis, management by objectives, budgeting, and supervision of an agricultural business.

*Prerequisite:* Applied Biological Systems or Biology and Agricultural Sciences

**Introduction to Administration of Justice/Dual Enrollment** (Grades 11, 12) 0.50 CREDIT

AJS 101 with Arizona Western College

An examination of the organization and jurisdiction of local, state, and federal law enforcement, judicial, and correctional systems; their history and philosophy; career opportunities and qualifying requirements, terminology, and constitutional limitations of the system.

**Police Function/Dual Enrollment** (Grades 11, 12)

0.50 CREDIT

AJS 230 with Arizona Western College

Examines the theories of procedures and methods of operation of public police with emphasis on discretionary powers. Career opportunities and current trends in law enforcement.

**Digital Media and Broadcasting** (Grades: 9, 10, 11, 12)

1 CREDIT

This course will introduce students to the basic principles of marketing with an emphasis on the sports entertainment industry. We will explore a large variety of marketing strategies, communications, sales approaches and technology based vehicles that can be used to gain the consumers' confidence in their client's product.

In addition to marketing principles and strategies the students will receive hands on experience in bringing those advertising principles to life utilizing the features of the Daktronics control system equipment and software language.

**Sports Medicine** (Grades: 10, 11, 12)

1 CREDIT

This course is designed as an introduction to the fields of sport medicine, athletic training and physical therapy. It will provide students with basic information and skills relevant to the prevention, recognition, first aid and rehabilitation of athletic injuries.

**Yearbook** (Grades: 9, 10, 11, 12)

1 CREDIT

Students in this course produce the yearbook for the school. Students will be introduced to the areas of yearbook development like advertisement sales, creating page layouts, photography, interviewing, and writing articles. They will develop, submit and proof pages, designing a high-quality product from beginning to end. The ability to work under deadlines is perhaps the most important aspect of the course. Students will use both Adobe Photoshop© and PageMaker© throughout the course.



## ELECTIVES

**Introduction to Philosophy/Dual Enrollment** (Grades: 10, 11, 12) 0.50 CREDIT  
Philosophy 101 with Arizona Western College

Philosophy is the natural knowledge of all things through their ultimate causes. Using human reason and logic, it investigates a number of topics, including but not limited to human nature, knowledge, free will, ultimate reality, God, ethics, and politics.  
*Prerequisite:* If not on honors track, must receive English teacher recommendation.

**Introduction to Ethics/Dual Enrollment** (Grades: 10, 11, 12) 0.50 CREDIT  
PHI 105 with Arizona Western College

Explores the nature and development of moral philosophy from the ancient Greeks to the present day. The major systems of ethics are presented and then applied in various ways to a range of contemporary moral issues and dilemmas. The course is designed to enhance students' sophistication in thinking about difficult moral and social questions.  
*Prerequisite:* ENG 101

**Film Studies/Dual Enrollment** (Grade 12) 0.50 CREDIT  
ENG 281

The study of movies as a medium for telling stories and communicating ideas. Includes such topics as narrative and visual elements, historical development and genres, and thematic and cultural issues. (This course fulfills an Arts credit for college (GE/WI).)  
*Prerequisite:* ENG 101

**College Preparatory Workshop** (Grade: 12) 0.50 CREDIT

This course will help prepare and educate 12<sup>th</sup> grade students about the college admissions and scholarship applications process. The workshop will provide support in completing admissions applications, including constructing a well-written personal essay. 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 they are able to find an educational institution that meets their needs.

**Public Speaking** (Grades: 10, 11, 12) 1 CREDIT

This course is a study of the theory and practice of oral communication, including: understanding the communication process, the analysis and evaluation of speeches, interpersonal skills, and group dynamics. The course focuses on critical thinking, the expressive language (speaking), and the receptive language (listening). In addition, the other language arts of reading, writing, viewing, and visually representing are integrated, as appropriate, to establish the speaker's credibility and message clarity.

---

**Freshman Seminar** (Grade: 9)

1 CREDIT

During Freshman Seminar, students will learn skills in study/learning techniques, note-taking skills, organizational methods, and computer literacy. 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. *Required course for all freshmen.*