MALTA HIGH SCHOOL

CLASS DESCRIPTIONS

2016-2017

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2016-17 CLASS DESCRIPTIONS

~ TABLE OF CONTENTS ~

In Order of Appearance

Agriculture Education
Art
Business Education
English/Language Arts
Family Consumer Science
Industrial Technology
Mathematics
Music
Physical Education/Health
Science
Social Studies
Spanish

MALTA HIGH SCHOOL GRADUATION REQUIREMENTS

MHS Graduation Requirements – 23 Credits – 15 ½ Specific Credits

Required Classes	Course Credits	Total Required Credits
English		**4**
English 9	1	
English 10	1	
English 11	1	
English 12	1	
Social Studies		**3**
Geography/World History (sophomore year)	1	
U.S. History (junior year)	1	
Economics/Government (senior year)	1	
Science		**3**
Earth Science (freshman year)	1	
Biology (sophomore year)	1	
Advanced Science Course	1	
Math		**3**
Pre-Algebra/Algebra I/Geometry (freshman year)	1	
Algebra/Geometry/Algebra II (sophomore year)	1	
Geometry/Algebra 2/Trigonometry (junior year)	1	
P.E./Health (freshman/sophomore year)	**1 ½**	**1 ½**
Computer Applications (freshman year)	**1**	**1**
	Total Required 15½	

Montana University System Recommendations

The Board of Regents, which establishes admission standards to the Montana University System, has set academic standards for all enrolling freshmen. By setting these standards, they have made it necessary for you and your child to decide if attending a four-year college is in your child's future plans.
If the answer is yes or maybe, it is suggested the following courses be taken:

9th Grade:	10th Grade:	11th Grade:	12th Grade:
English 9	English 10	English 11	English 12
Algebra I/Geometry	Geometry/Algebra II	Algebra 2/Trigonometry	Calculus/Trigonometry
Earth Science	Biology	Advanced Science	Advanced Science
	World History	U.S. History	Government

*Foreign language (Spanish) in any year.

AGRICULTURE EDUCATION

<u>Agriculture Education I</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
In Agriculture Education I students will be introduced to FFA, beginning animal and plant sciences. Students will be involved with small hands-on projects in most areas. This includes livestock evaluation, agronomy and farm mechanics. Students are also introduced to parliamentary procedure. Students will also start their SAE's (supervised agriculture experience).

<u>Agriculture Education II</u> **Grades: 9-12** **Prerequisite: Ag Ed I** **Credit: 1**
Agriculture Education II is a more in-depth look at the small animal and plant anatomies. Students will learn to identify local plants and noxious weeds. Students will also learn the digestive systems of cattle, sheep and pigs, and will also be able to diagnose some illnesses we find in local herds. Mechanics will consist of small engines and parts identification. FFA will take the SAE's to the next level along with furthering their leadership skills.

<u>Agriculture Education III</u> **Grades: 9-12** **Prerequisite: Ag Ed II** **Credit: 1**
Agriculture Education III takes an in-depth look at the large animal anatomies. The students will work out of the veterinary science textbook. The muscle, digestive, circulatory, reproductive, nervous, endocrine and immune systems will be studied. The second half of the year consist of Farm Business Management. Students will learn how to manage a farm or ranch and see just what it takes to make a living off of the land. FFA students will learn to be better leaders and run for chapter office positions.

<u>Agriculture Education IV</u> **Grades: 9-12** **Prerequisite: Ag Ed III** **Credit: 1**
In Agriculture Education IV students take Farm Business Management to the next level. The students learn about debt-to-asset ratios, marketing, futures and hedging. The students also spent time planning for district competitions as well as planning for John Deere Ag Expo and the State Convention. Students all spend time working on various school projects. The students will also complete their SAE's.

<u>Welding</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
This course focuses on the basic fundamentals of welding. The student will become familiar with welding terms, and demonstrate basic required welds using oxy-acetylene, SMAW, MIG, and TIG. There will be required class work and mastery of material covered. Each student will graded on participation attendance and shop behavior. Students will be allowed to work on projects approved by the instructor.

<u>Welding II</u> **Grades: 10-12** **Prerequisite: Welding** **Credit: 1**
Welding II focuses on the advanced fundamentals of welding. The student will become proficient with welding terms, shop safety, and demonstrate advanced required welds. The students will be using oxy-acetylene for torch cuts, SMAW (stick), GMAW (MIG), and GTAW (TIG) welding processes. In addition to that that the students will also learn the proper use of plasma cutting Thermal Dynamics machines.

ART

<u>Art I</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
Art I is centered around the basics of art while exploring different mediums. In the 1st semester we focus on 2-D work i.e. drawing and painting, while in the second semester we discover 3-D work i.e. pottery and sculptural work. We end with a project that spotlights a famous artist of your choosing.

<u>Art II</u> **Grades: 10-12** **Prerequisite: Art I** **Credit: 1**
Art II delves deeper into the skills learned in Art I focusing mostly on the different mediums of painting. The year ends with sculptural projects that include pottery and a self-portrait.

<u>Art III & IV</u> **Grades: 11-12** **Prerequisite: Art I & Art II** **Credit: 1**
Art III & IV allows the student to work on their own project ideas as they investigate all kinds of mediums. These classes are intended for the students who want to hone their artistic skills and explore their interests.

BUSINESS EDUCATION

<u>Computer Applications</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
This course is designed to bring students to a basic level of proficiency in applying computer technology in the educational setting. Emphasis will be placed on file management and appropriate technology use in a network environment. Students will review keyboarding skills and be introduced to fundamental computer concepts, word processing, multi-media presentations, Internet applications, and spreadsheets. Students will also complete units on Financial Literacy, Email etiquette, Digital Citizenship, copyright law, programming/web page development and research current business and technology trends.

<u>Accounting</u> **Grades: 10-12** **Prerequisite: None** **Credit: 1**
This is designed to provide students with a strong foundation in accounting principles. Students will learn what business transactions are and how accountants use a double-entry system (debits and credits) to keep track of these transactions. Students will study the complete accounting cycle of recording transactions, preparing financial statements, and "closing the books" for small, single-owner service and merchandising businesses.

<u>Accounting II</u> **Grades: 11-12** **Prerequisite: Accounting** **Credit: 1**
This is a two-semester course taken as independent study but in the classroom with the teacher as fits the schedule. Students continue their learning from Accounting I to advance to notes payable, notes receivable, inventory control, accounting for uncollectible accounts, accounting for accrued revenue and expenses, and end of the fiscal period work for a corporation. A business simulation with source documents is the final project of the course.

<u>Intro To Business</u> **Grades: 10-12** **Prerequisite: None** **Credit: 1**
This course is designed as an introductory class to learn general business concepts that are relevant to the future workforce and business leaders. We will be using the textbook as well as customized projects including the MT High School Business Challenge. These projects are designed to teach the most relevant topics in areas of finance, marketing, operations, and management.

ENGLISH

<u>English 9</u> **Grade: 9** **Prerequisite: None** **Credit: 1**
English 9 utilizes the Prentice Hall Grammar and Literature books. There are daily grammar assignments. Both non-fiction and fiction are covered in short stories and novels such as AND THEN THERE WERE NONE, THE CALL OF THE WILD, and ANIMAL FARM as well as ROMEO AND JULIET by Shakespeare. An IFEA unit focusing on Montana Native Americans is included with historical reference. Weekly writing incorporates The Six Traits of Writing.

<u>English 10</u> **Grade: 10** **Prerequisite: English 9** **Credit: 1**
English 10 will concentrate on both literature and the art of composition. Students will review and practice skills in grammar, vocabulary, speech, as well as polishing critical thinking and writing abilities. There will be a strong emphasis on quality thesis statements and essay writing.

<u>English 11</u> **Grade: 11** **Prerequisite: English 10** **Credit: 1**
English 11 will concentrate on American Literature, composition, and research. Students will review and practice skills in grammar, vocabulary, Etymology, speech, critical thinking skills, and writing capabilities in the form of essays and research work.

<u>English 12</u> **Grade: 12** **Prerequisite: English 11** **Credit: 1**
British Literature from the Prentice Hall Series is the resource throughout the year with poetry and short stories in addition to frequent writing in The Six Traits Model. THE ONCE AND FUTURE KING and WATERSHIP DOWN are two of the featured novels. Native American Literature emphasizes Montana through poetry, short stories and a novel. Writing in the senior year emphasizes preparation for college with a resume, research papers, and a Portfolio of varied works in the last nine weeks for both college preparation and job information.

<u>AP English</u> **Grade: 12** **Prerequisite: Faculty Selection** **Credit: 1**
This class concentrates on writing as a process. The end result is the participation in the English Literature and Composition Test, the English Language and Composition Test, or both. The class is constructed around the close reading of both poetry and prose and the emphasis is more on technical writing than on any kind of creative writing.

<u>Creative Writing</u> **Grades: 10-12** **Prerequisite: English 9** **Credit: 1**
Creative Writing Class will concentrate on communication through composition. Students will explore creative writing through terminology, writing genres, well-known authors, and practice the value of sharing their own work and that of others. The class will also experience, media, technology, journalism, and more. Home of The Mustang Gazette.

<u>Technical Writing</u> **Grades: 11-12** **Prerequisite: English 10** **Credit: 1**
Technical Writing Class will include the practice of practical and procedural writing and the reading of technical writing examples. There will be weekly writing projects and the exploration of useful and realistic writing as well as interview practice, writing personal profiles, process narratives, and more.

<u>Speech</u> **Grade: 10-12** **Prerequisite: English 9** **Credit: 1**
Speech or Public Speaking class will develop student communication skills, practice and polish the ability to use critical thinking capabilities, and allow students to promote confidence in the areas of public speaking to a more professional level. The course will entail research, topic analysis, organizational skills, FUN, and the ability to communicate their message in the best possible manner.

Family Consumer Science

<u>Family Consumer Science</u> **Grades 9-10** **Prerequisite: None** **Credit: 1**
The goal of the Family and Consumer Science Department is to develop critical thinking skills, problem solving skills, practical math, and science skills and careers paths for young adults in the context of the home, family, and community. Introduction to FCS is designed to introduce students to the field of family and consumer sciences. Course of study will include: foods and nutrition, textiles and clothing, consumer skills, finance and money management, child development, parenting, goal setting, and career choices.

<u>Culinary Arts</u> **Grades 10-11** **Prerequisite: None** **Credit: 1**
Culinary Arts is designed as a career path class for students considering a career in the culinary arts. The classes include: sanitation and safety, ServSafe, nutrition, culinary math, food service and production, cooking and baking techniques, menu planning, and career choices in the food service industry. Students will get hands on experience in daily labs to expand their experience with food production for service to others. Large scale mixing and baking will present students with the opportunity to develop workplace skills and explore possible careers in the food industry. Students will study global cuisine and create different dishes from around the world. Class Fee: $20.00

<u>ProStart</u> **Grades: 11-12** **Prerequisite: Culinary Arts** **Credit: 1**
ProStart class allows students the opportunity to expand their experience with food production after completing Culinary Arts. Malta High School has entered into an agreement with the Montana Restaurant Association to implement a full program in ProStart. ProStart is the career-building program for high school students who are interested in culinary arts and foodservice management. During two challenging and rewarding semesters, ProStart students experience classroom study, mentored work experiences, catering experiences, and opportunities to compete in local and national competitions. Students who complete the ProStart program are eligible for scholarships from Culinary Schools across the country. Class Fee: $20.00

<u>Senior Survival</u> **Grades 11-12** **Prerequisite: None** **Credit: 1**
This course is important for students as they look toward living independently and making decisions regarding their future. Units of study will include; becoming an adult, career considerations, managing financers, and managing individual and family wellness. Students will go through all the steps to complete a successful job interview and take part in a job interview. They will learn about how to complete job applications, and how to write a cover letter and resume', The "Take Charge of Your Finances" curriculum will be used throughout the semester allowing students to experience firsthand, the numerous personal and family finance skills needed to successfully navigate the demands of the "real world" after high school. The "A Game" Book will be used to learn about 7 important values: attitude, acceptance, accountability, appreciation, appearance, ambition, and attendance.

<u>Early Childhood Education</u> **Grades: 11-12** **Prerequisite: None** **Credit: 1**
Early Childhood Education is designed to help students gain a better understanding of children. Students will study the behavior of children through observation during play and interaction with their parents and caregivers. Students will learn about the human life cycle from pregnancy through the preschool years. During class we will explore career opportunities in the field of early childhood and explore the factors in a child's life that are necessary for healthy intellectual, physical, moral, social and emotional growth. Students will create a set of lesson plans with learning activities throughout the semester that target social, emotional, moral, intellectual, and physical development of children. Parenting lessons are designed to inform students about building healthy relationships. Students will investigate decision making for relationships and parenting including; contraception, conception, pregnancy, labor and delivery. Students will focus on self-understanding, friendships, lifestyle choices, dating and marriage, effective parenting skills, and strategies for combining work and family.

INDUSTRIAL TECHNOLOGY

<u>Tech Exploratory</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
Students will receive a basic introduction to the following areas, first quarter drafting, second quarter woods, third quarter welding, and fourth quarter small engines.
Learner Outcomes:
1. Students will develop a strong work ethic while applying a constant concern for safety while working in the shop.
2. Demonstrate the ability to follow written and verbal instructions needed to safely use power and hand tools. Understand basic principles and concepts of project design.
3. Demonstrate the ability to follow written and verbal instructions to build and finish an appropriate project.

<u>Woods I</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
Is being offered for anyone interested in the fundamentals of machinery, hand tools, and joinery used in constructing furniture and cabinets. The student will be required to construct a project using a set of plans that include drawings, a bill of materials, and a procedure list. Units covered will include woodworking basics, finishing procedures, hardware, and special emphasis on safe and proper use of tools and machinery.
Learner Outcomes:
1. Students will develop a strong work ethic while applying a constant concern for safety while working in the Woods Shop. Demonstrate basic woodworking techniques and processes.
2. Demonstrate the ability to follow written and verbal instructions needed to safely use power and hand woodworking tools. Understand basic principles and concepts of wood project design.
3. Demonstrate the ability to follow written and verbal instructions to build and finish an appropriate project.

<u>Woods II</u> **Grades: 10-12** **Prerequisite: Woods I** **Credit: 1**
Will provide students the opportunity to advance their wood working skills and knowledge in a lab/shop environment. The student will be responsible for project plans material and bill of materials. Emphasis will be is placed on advanced wood working skills and productive use of time. Special emphasis will be placed on safe and proper use of tools and machinery.
Learner Outcomes:
1. Students will develop a strong work ethic while applying a constant concern for safety while working in the Woods Shop. Demonstrate basic woodworking techniques and processes.
2. Demonstrate the ability to follow written and verbal instructions needed to safely use power and hand woodworking tools. Understand basic principles and concepts of wood project design.
3. Demonstrate the ability to follow written and verbal instructions to build and finish an appropriate project.

<u>AutoCAD</u> **Grades: 10-12** **Prerequisite: None** **Credit: 1**
AutoCAD is a basic level CAD course utilizing the universally popular CAD software, AutoCAD. This entry level course targets those with little or no previous AutoCAD experience or those with a need for substantial upgrading from previous non-windows environment versions of AutoCAD. Participants will learn the basics of CAD geometry creation and manipulation using a variety of computer command inputs including keyboard shortcuts, toolbox icons and mouse menu selection. Geometry created will include points, lines, circles, arcs, and basic polygons.
Geometry is edited or manipulated using commands such as zoom, pan, trim, extend, copy, rotate and by the use of geometry “grips”.

MATHEMATICS

<u>Pre-Algebra</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
This course will solidify the arithmetic standards students already know and prepare them for Algebra and Geometry. The textbook integrates applied arithmetic, algebra, geometry, and connects all these areas to measurement, probability, and statistics. The course provides opportunities for students to visualize and demonstrate concepts with a focus on real-world applications. Students are required to have a graphing calculator, preferably a TI-84 Plus.

<u>Algebra I</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
This course will introduce students into the language of algebra. It will help prepare students for geometry and other mathematics. The topics that will be covered are using algebra to describe, using algebra to explain, linear equations and inequalities, division and proportions, slopes and lines, patterns of change, powers and roots, quadratic equations and functions, linear systems, and polynomials. A graphing calculator is required.

<u>Geometry</u> **Grades: 9-12** **Prerequisite: Algebra** **Credit: 1**
This course is the study of visual patterns and size and shape. The students will experience drawing, constructing, measuring, visualizing, comparing, transforming and classifying geometric shapes. Students are required to have a graphing calculator, preferably a TI-84 Plus.

<u>Algebra II</u> **Grades: 10-12** **Prerequisite: Geometry** **Credit: 1**
The content and questions of Algebra II, or advanced Algebra, integrate geometry, discrete mathematics, statistics and algebra. Topics such as matrices, logarithms, quadratic equations, systems, powers, inverses, radicals and conic sections are covered in Advances Algebra. The goal of this course is to help the student learn mathematics on their own so that they may deal with mathematics in the real world. Students are required to have a graphing calculator, preferably a TI-84 Plus.

<u>Trigonometry</u> **Grades: 11-12** **Prerequisite: Algebra II** **Credit: 1**
This course will review and extend ideas about functions studied in earlier courses. These extensions will be done with the aid of technology with graphics and statistical capabilities. This course emphasizes the changing field of statistics, which is encountered at the college level and in everyday life. A thorough knowledge of functions, statistics, and trigonometry is needed for calculus. Students are required to have a graphing calculator, preferably a TI-84 Plus.

<u>College Algebra</u> **Grades: 12** **Prerequisite: Algebra II** **Credit: 1**
This course will focus on developing students' conceptual understanding of college algebra while offering opportunities for them to hone their problem-solving skills. This course is designed to prepare students for higher level math in college. Topics to be covered are Equations and Inequalities, The Cartesian Plane and Graphs, Functions, Polynomial Functions, Exponential and Logarithmic Functions, Systems of Equations and Inequalities, Matrices and Determinants, Sequences, Series, and Probability. A graphing calculator is required.

<u>Calculus</u> **Grade: 12** **Prerequisite: Trigonometry** **Credit: 1**
This course will introduce students into the world of Calculus. Topics to be covered include Limits and Continuity, Derivatives, Integrals, Differential Equations, Infinite Series; and Parametric, Vector, and Polar Functions. A graphing calculator is required.

<u>Business Math</u> **Grades: 11-12** **Prerequisite: None** **Credit: 1**

This course is for those wanting to increase their understanding of mathematics for business and personal finance. To be a smart consumer, a good citizen, and have a successful career, you need to understand mathematics in the context of business and personal finance. This course will help you develop financial literacy. Units to be covered are Managing Your Money, Managing Your Expenses, Making Financial Decisions (house and car loans, insurance and investments), Making Business Decisions, and Managing Business Finances.

MUSIC

<u>Concert Choir</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
This large performing group rehearses daily to prepare each singer for a lifetime of singing and being an informed music consumer. The class consists of daily practice with sight singing, singing in-tune with a healthy and full voice, singing in a variety of languages, and singing in an expressive manner to add beauty to the world. We prepare music for four required concerts a year. Our goal is to perform and receive Superior ratings at District Music Festival. Within our class time there are select groups that will rehearse including: Swing Choir, Men's Group, and Euterpes-the Women's Group. Members of the choir also have the opportunity to prepare and perform solos and small ensembles for District and State Festivals.

<u>Concert Band</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
Students in grades 9 – 12 with band instrumental experience are encouraged to take this class. This is one of the instrumental performing groups in Malta High School. Students experience high quality high school instrumental music with opportunities for individual growth through solo and ensemble work. Four concerts are presented during the year in addition to District Music Festival in April. The Malta High School pep band/drum line come from this group. This group involves wind instruments and combines with **Malta High School Concert Band Percussion** for performances.

<u>Jazz Combo</u> **Grades: 10-12** **Prerequisite: By audition** **Credit: 1**
Students are admitted into this group by audition or permission from Band Director. This is another instrumental performing group in Malta High School. Students will experience Jazz Ensemble playing and improvisation in a small group jazz setting. A variety of Jazz styles will be explored with emphasis on individual improvisation skill development. Three concerts will be presented in addition to District and State Music Festival. Also included is participation in a Jazz Festival during the year.

<u>Percussion</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**
This class is for percussion in the Malta Band Program. Students in grades 9 – 12 with percussion experience are encouraged to take this class. This group involves percussion instruments and combines with Malta High School Concert Band for performances. This is one of the instrumental performing groups in Malta High School. Students experience high quality high school instrumental music with opportunities for individual growth through solo and ensemble work. Four concerts are presented during the year in addition to District Music Festival in April.
The Malta High School pep band/drum line come from this group.

PHYSICAL EDUCATION/HEALTH

<u>Physical Education/Health</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**

The purpose of Physical Education is to provide students with the knowledge, skills and values they need to become healthy and physically active for a lifetime. This course addresses both the health and skill related components of fitness which are critical for students' success. Activities in this course may include, but are not limited to the following: Health-related fitness components, fitness/wellness concepts, nutrition, goal setting, stability balls, steps, circuit training, weight training, resistance bands, jump ropes, walking. The course will also strive to develop the physical skills necessary to be competent in many forms of movement, knowledge of team sports concepts such as offensive and defensive strategies and tactics, and appropriate social behaviors within a team or group setting. The integration of fitness concepts throughout the content is critical to the success of this course.

The Health component of this course is to promote a healthy lifestyle. Student education will be based on National as well as Consortium health standards. Units of instruction will consist of topics such as making healthy choices, personality and self-esteem, first aid/CPR, managing stress, mental disorders and suicide, eating disorders, you and your family, building healthy relationships, preventing violence, infectious diseases and more.

<u>Weight Training</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**

Weight Training is an elective course designed to educate students in a safe environment the fundamentals of weight training. Lifts that are routinely done in this class are: squats, bench power cleans along with many other auxiliary lifts. Students are allowed to shower a little earlier to prepare for the rest of their day. This course is offered to grades 9 through 12. The maximum number of students allowed in this class is 16.

<u>Conditioning</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**

The purpose this course is to build muscle endurance, strength, power while reducing the risk of injury through a strength training program. Exercises will include but are not limited to squats, power cleans, bench, snatch, and numerous auxiliary exercises. Movement fundamentals, technique, safety, agility, coordination, quickness, and flexibility will be stressed throughout the course. Our primary goal is to educate students and enhance activity performance and a healthy lifestyle.

SCIENCE

<u>Earth Science</u> **Grade: 9** **Prerequisite: None** **Credit: 1**
Earth Science is a freshman science course covering ecology, rocks and minerals, and weathering and erosion. Plate tectonics, meteorology, and astronomy are covered as well, with an emphasis on geology and gemstones.

<u>Biology</u> **Grade: 10** **Prerequisite: Earth Science** **Credit: 1**
Biology is a sophomore science course covering life's biological, chemical, and cellular characteristics, and genetics and evolutionary characteristics. The six kingdoms' characteristics will be discussed, as well as human systems studies and animal dissections.

<u>Chemistry</u> **Grades: 11-12** **Prerequisite: Biology** **Credit: 1**
This class will study the structure of matter and the chemical and physical changes that matter can undergo. This course is intended to meet the needs of a student who will be taking introductory college level chemistry classes. Students are recommended to have a scientific calculator. A calculator that meets the needs of students in mathematics classes will be sufficient.

<u>Physics</u> **Grades: 11-12** **Prerequisite: Geometry** **Credit: 1**
This class will focus on the classical physics of matter, motion, forces, and energy. This course is intended to provide students with a solid base of knowledge, both conceptual and analytical, to move on to introductory college level physics classes. A firm grasp on basic algebra will be needed to manipulate equations as well as many of the concepts covered in Geometry. Students are recommended to have a scientific calculator. A calculator that meets the needs of students in mathematics classes will be sufficient.

<u>AP Biology</u> **Grades: 11-12** **Prerequisite: Biology** **Credit: 1**
AP Biology is a college course designed to cover introductory biological concepts, complete at least 12 required labs, do a great deal of technical essay writing, and take a national exam in May to receive possible college credit with a passing score.

<u>Environmental Science</u> **Grades: 11-12** **Prerequisite: Biology** **Credit: 1**
Two quarters of ecological concepts will be covered, with many short field trips included.
The remaining two quarters will be spent completing a science research project of the student's choice, and competing at a local, regional, or state science fair competition.

<u>Anatomy & Physiology</u> **Grades 11-12** **Prerequisite: Biology** **Credits: 1**
This class is intended for those seeking careers somewhere in the medical field. This class will study the structure and function of the human body. This will include discussions of various illnesses and injuries that may be present in the human body.

<u>Astronomy/Ecology</u> **Grades 11-12** **Prerequisite: Biology** **Credit: .5 ea.**
<u>Astronomy</u> is a one semester class worth one half credit. The class will focus on the universe beyond the earth beginning with stars and moving up through the solar systems, galaxies, clusters, and the universe. Night time viewing of constellations from various cultures may be required.
<u>Ecology</u> is a one semester class worth one half credit. This class will focus on basic ecological principles and how they apply in the world outside the classroom. Current ecological events will be discussed with a particular focus on events that affect students locally.

Forensics/Microbiology **Grades 11-12** **Prerequisite: Biology** **Credit: .5 ea.**
Forensics is a one semester class worth one half credit. This class will focus on the history of and modern methods for documenting and gathering crime scene evidence. The primary focus will be the science underlying each of these methods. Students will learn the theory and hands on application of many of these techniques.
Microbiology is a one semester class worth one half credit. This class will focus on the members of the Kingdom Archaebacteria and Eubacteria. The structures and function of the members of these kingdoms will be discussed as well and hazards and benefits of several types of bacteria.

Biology II / Chemistry II **Grades: 11-12** **Prerequisite: Biology/Chemistry** **Credit: .5 ea.**
Each of these classes will last one semester. The classes are worth .5 credit for each semester.
Biology II is for juniors and seniors that want to learn more about plants. Biology II will include plant diversity, roots, stems, and leaves, reproduction of seed plants, plant responses and adaptations. The class will also include evolution. This class will complete a biology curriculum for those entering college or wanting to know more about the world around them.
Chemistry II is a refresher course in chemistry a review of regular chemistry with the addition of thermo chemistry, reaction rates and equilibrium, acids, bases and salts, oxidation-reduction reactions, electrochemistry, organic chemist and nuclear chemistry. The class is designed to further chemical knowledge for those going into high educations especially in the areas of engineering and medicine.

SOCIAL STUDIES

World History **Grades: 10-12** **Prerequisite: None** **Credit: 1**
This course will cover the time period, from the earliest known civilizations to the early 1900's. Some of the major events that will be covered are: First empires – Greek – Roman – Egyptian , the Renaissance, the Reformation, the age of Exploration, Monarchs of Europe, Enlightenment, French Revolution and Napoleon, Industrial Revolution, and the Age of Imperialism.
The main focus of the class is to learn how the world evolved from the early civilization of city-states, into the many different people and nations of the world today. Students will also enhance their critical thinking through in depth reports on certain eras of world history.

U.S. History **Grades: 11-12** **Prerequisite: World History** **Credit: 1**
U. S. History class will cover the time periods of Westward Expansion to the present. Topics to be covered include a brief review of earlier American History, Westward Expansion, the Civil War, Industrial Revolution, Imperialism, World War I and II, the Great Depression, the Cold War, the Civil Rights Movement, the Vietnam Era, and Present Day events. The class will address not only the what of history, but also the why, through the geopolitical, social, and cultural issues of human interactions ultimately creating history itself.

Economics /Government **Grade: 12** **Prerequisite: U.S. History** **Credit: 1**
Economics is a one semester class designed to serve as an introduction into the study of economics. The student will acquire a working knowledge of the basic concepts of economics. These concepts will include, but not limited to the following: Scarcity, Factors of Production, Supply and Demand, Economic Systems, Government Impact and Influence on the Economy, Deficit Spending, National Debt, Taxation, Business Cycle, Inflation, Basic Microeconomics and Macroeconomics Concepts.
Government is a one semester class designed as a survey of American Government. Students will learn about the basic characteristics of various types of government, focusing primarily on the unique characteristics of the American system. The class will also cover the responsibilities of being a citizen, as well as offering several chances to take part in civic activities. Current issues and events will also be discussed, serving as a way for students to see practical applications of concepts covered in class.

Current World Affairs **Grades: 10-12** **Prerequisite: None** **Credit: 1**
This course is an ongoing analysis of current events that take place in our world. Students will explore a variety of issues and events through several types of media. Technology and research skills are used throughout this course. Combined with effective presentation skills, students have the opportunity to express their views on any given subject. Students will find connections between current and historical events providing a reference as to "why" that event may have happened.

Local History **Grades: 10-12** **Prerequisite: None** **Credit: .5**
This will be a course designed to give students a historical perspective of Malta and Phillips County. Throughout the course of the school year students will be involved in a variety of activities that will facilitate a better understanding of the history within Malta and Phillips County.

Psychology **Grades: 11-12** **Prerequisite: None** **Credit: 1**
This course is designed to give students an overview of psychology, which is the scientific study of behavior and mental processes. The text provides tools to help students gain insight into their own behavior, as well as their relationships with others. As a social science, psychology explores the influences of society on individual behavior and group relationships. We study The Life Span, The Workings of Mind and Body, Learning and Cognitive Processes, Personality and Individuality, Adjustment and Breakdown, and Social Psychology.

SPANISH

<u>Spanish I and II</u> **Grades: 9-12** **Prerequisite: None** **Credit: 1**

We offer two levels of Spanish at Malta High School; two class periods of level I and one class period of level II. Every day students work on vocabulary, grammar, listening, writing, and speaking. We also study a different Spanish-speaking country each week to increase geography, history, and cultural knowledge. Our goal is to provide a strong base of knowledge that will encourage students to study a foreign language after high school.