

# Meridian Medical Arts Charter High School



Course Description Book:  
2017-2018



# Language Arts



## **English 9 A & B** -- Required

**Open to:** 9<sup>th</sup>

**Credit:** 2

Content: This course fulfills the standards prescribed by the state of Idaho. Students will develop reading, writing, speaking, listening and viewing skills through the study of language and literature. Students will read a variety of traditional and electronic materials for information and understanding. Students will understand the writing process and how to edit for correctness and clarity. Students will explore all aspects of communication, and an emphasis will be placed on the personal communication skills required by health care workers.

## **Honors English 10 A & B** -- Required

**Open to:** 10<sup>th</sup>

**Prerequisite:** Successful completion of English 9 A/B or equivalent course.

**Credit:** 2

Content: This course is designed to fulfill the standards prescribed by the state of Idaho. Students will develop reading, writing, speaking, listening and viewing skills through the study of language and literature. Students will read and respond to a variety of literatures to compare and contrast the many dimensions of the human experience. Students will develop rhetorical writing techniques to inform and explain, and for literary response and expression. Reading materials will be drawn from classic and contemporary literature, and will emphasize the responsibilities and ethics of health care providers.

## **Honors English 11 A & B** -- Required

**Open to:** 11<sup>th</sup>

**Prerequisite:** Successful completion of English 10 A/B or equivalent course.

**Credit:** 2

**Concurrent Credit:** *3 credits available through Idaho State University*

Content: This course fulfills the state standards prescribed by the state of Idaho. Students will develop reading, writing, speaking, listening and viewing skills through the study of language and literature. An emphasis is on literature that makes connections with the past, present, and future, and includes dramas, classics, poetry, and nonfiction. Students will explore themes that reflect the concerns of society and how they relate to the health science. Written and oral projects include literary analysis, technical, persuasive and personal essay formats.

## **College Composition A & B** -- Required

**Open to:** 12<sup>th</sup>

**Prerequisite:** Successful completion of English 11 A/B or equivalent course.

**Credit:** 2

**Concurrent Credit:** *3 credits available through Idaho State University*

Content: This course helps the student prepare for college writing and reading. You will begin to look at writing as a recursive process, which involves pre-writing, drafting, giving and receiving feedback, revising and editing, rethinking, revising, and so on. You will also learn to better understand and appreciate the writings of others as you practice critical, or analytical, reading. During the course of the semester we will also work on developing thesis statements using appropriate rhetorical strategies for various purposes and audiences, developing persuasive/argument strategies, review the conventions of standard written English, practice summarizing, paraphrasing and quoting, learn to document sources, and conduct library research.

# Mathematics



## **High School Math I A & B**

**Open to:** 9<sup>th</sup>

**Prerequisite:** CCSS Algebra 8

**Credits:** 2

Content: The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. This course uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. A scientific calculator is recommended.

## **HS Math II A & B**

**Open to:** 9<sup>th</sup> & 10<sup>th</sup>

**Prerequisite:** Successful Completion of High School Math I A/B or Teacher recommendation

**Credit:** 2

Content: This course focuses on the formalization of quadratics and the application of mathematical and algebraic concepts to describe and solve geometric situations.

## **HS Math III A & B**

**Open to:** 10<sup>th</sup> 11<sup>th</sup>

**Prerequisite:** Successful Completion of High School Math II A/B or Teacher recommendation

**Credit:** 2

Content: This course formalizes the use of trigonometric, polynomial and logarithmic functions, geometric modeling and inferential statistics. A graphing calculator is recommended.

## **Applied Statistics A & B**

**Open to:** 10<sup>th</sup> and 12<sup>th</sup>

**Prerequisite:** Successful completion of HS Math III A/B, Pre-Calculus, or Teacher recommendation

**Credit:** 2

**Concurrent Credit:** *M-254 (Applied Statistics) 3 credits available through Boise State University.*

Content: This is a full year introductory, non-calculus based course in statistics. It is equivalent to a typical introductory college course in statistics. There will be four main conceptual themes in the class: exploring data, planning a study, anticipating patterns, and statistical inference. There will be extensive use of graphing calculators and a major emphasis on medical application.

## **Pre-Calc A & B**

**Open to:** 11<sup>th</sup>

**Prerequisite:** Successful completion of HS Math 3 or Teacher recommendation

**Credit:** 2

**Concurrent Credit:** *M-130 (College Algebra) 3 credits available through Northwest Nazarene University.*

Content: This course is an ideal pre-college mathematics course for students. College Algebra enables students to display, describe, transform, and interpret numerical information represented as data, graphs, or equations. The use of functions to model real world situations is a major theme. It is recommended that students have a graphing calculator.

## Survey of Calculus A & B

Open to: 12<sup>th</sup>

Prerequisite: Successful completion of Pre-Calculus or Teacher recommendation

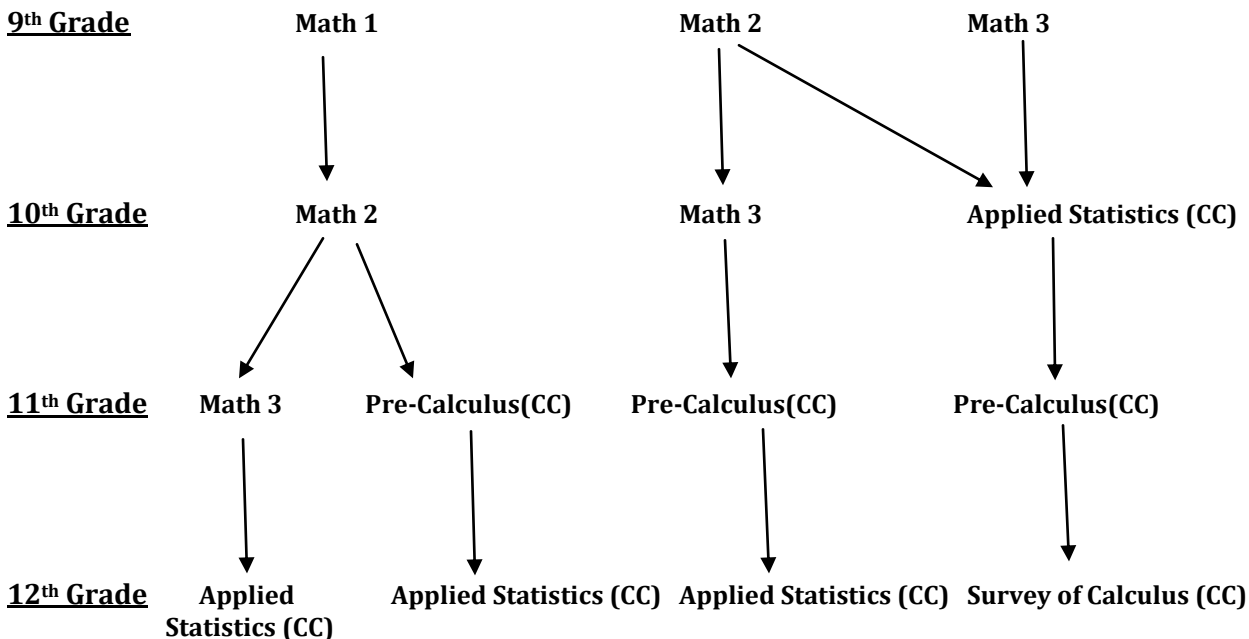
Credit: 2

Concurrent Credit: M-160 (Survey of Calculus) 4 credits available through Boise State University.

Content: This class will cover the essential topics involved in a first semester college level Calculus class. The students will review the concepts of the Pre-Calculus class. Then there will be an emphasis put on a study limits, derivatives, and integrals. The class requires extensive use of graphing calculators. The class emphasizes application, specifically in the Health Care Sciences, more than proofs and theory.

### MMACHS Math Sequence Options

We place students into one of the following options, depending on what they completed in 8<sup>th</sup> Grade. Our plan is to make sure every student who comes to our school will have had a least one year of Common Core curriculum. We also want to make sure they get an opportunity to take the concurrent credit courses (CC) that we offer at MMACHS.



Applied Statistics-----Boise State University (3 credits)—M-254 (Applied Statistics)

Pre-Calculus-----Northwest Nazarene University (3 credits)—M-130 (College Algebra)

Survey of Calculus-----Boise State University (4 credits)—M-160 (Survey of Calculus)

# Science



## **Integrated Earth Science A & B -- Required**

**Open to:** 9<sup>th</sup>

**Credit:** 2 (Lab Credit)

Content: The earth and our universe are studied through an integrated science approach to combine major science disciplines that reinforce one another and enhance learning. Integrated science creates a deeper understanding of complex systems and phenomena within the earth system. This course is lab centered with emphasis placed upon investigations related to our earth and solar system. Idaho State Standards for Science and laboratory skills are embedded in the course and mastered by students via laboratory exercises, projects, class work and testing.

## **Integrated Biology A & B -- Required**

**Open to:** 10<sup>th</sup>

**Credit:** 2 (Lab Credit)

Content: Life processes along with the conditions necessary for life are studied through an integrated science instructional approach which continues to develop upon the foundations and laboratory skills established in Integrated Earth Science. In this course inquiry skills are used to create depth of understanding of life, environment, and ecosystems. In addition, emphasis will be placed upon understanding how life and life conditions relate to the health sciences including such areas as disease transmission, prevention, and treatment. This is a lab based science course with emphasis placed upon Biology. Idaho State Standards for Science and laboratory skills are embedded within the course and are mastered by students via testing, laboratory exercises, projects, and class work.

## **Comparative Anatomy, Physiology, and Behavior A & B -- Required**

**Open to:** 11<sup>th</sup> & 12<sup>th</sup>

**Prerequisite:** Successful completion of Biology

**Credit:** 2 (Lab Credit)

**Concurrent Credit:** *Anatomical Foundations (PE2243)* 3 credits available through Idaho State University.

Content: This course investigates each of the nine human systems: integumentary, muscular, skeletal, digestive, endocrine, respiratory, circulatory, nervous, reproductive, and excretory. Students will receive detailed instruction and gain in-depth knowledge through limited lecture, extensive labs, and specific dissections as they relate to this field of study. Students interested in careers related to zoology, veterinary medicine, ecology, nursing, EMT work, and other forms of health care will gain relevant experience in this course.

## **Chemistry A & B -- Required**

**Open to:** 11<sup>th</sup> & 12<sup>th</sup>

**Credit:** 2 (Lab Credit)

Content: This course is a comprehensive introduction to chemistry. The course and accompanying laboratory will prepare students for post-secondary investigation of chemistry that is necessary for a career in health sciences. Throughout the course, students will engage in a thorough exploration of elements, compounds, and the forces that drive change within chemical systems. This course includes an intensive laboratory component.

## **Honors Biology A & B** -- Elective

**Open to:** 11<sup>th</sup> & 12<sup>th</sup>

**Prerequisite:** Teacher recommendation

**Credit:** 2 (Lab Credit)

**Concurrent Credit:** *BIOL 1101 & BIOL1102* 4 credits available through Idaho State University.

Content: Honors Biology is the equivalent of a college introductory biology course taken by biology majors during their first year at college. This course will build on the foundation obtained in Integrated Biology and more deeply investigate the major concepts of biology. Students will survey the basic concepts of biology with emphasis on life's diversity, cellular processes, genetic principles, and human's place in nature. This course is designed for students who intend to major in the sciences and those in pre-medicine and related fields. Honors Biology includes both lecture and laboratory components including a concentration of lab work with required technical lab reports.

## **Physics A & B** -- Elective

**Open to:** 11<sup>th</sup> & 12<sup>th</sup>

**Credit:** 2

Content: This course will introduce students to physics through the investigation of mechanics, fluid dynamics, electricity, magnetism, and waves. The course structure allows for hands-on investigation and activities that serve to strengthen concepts discussed in class. This course includes an intensive and engaging laboratory component designed to facilitate student abilities to solve science-based problems.

# Social Studies



## **Global Perspectives** -- Required

**Open to:** 9<sup>th</sup>

**Credit:** 1

Content: This class focuses on World Religions, Governments, Economic Systems, and Cultures found around the globe. Emphasis is placed on unilateral and multilateral positioning of the United States with International Trade Organizations in relation to U.S. foreign policy.

## **Freshmen Cornerstone** -- Required

**Open to:** 9<sup>th</sup>

**Credit:** 1

Content: This course will help ninth graders adjust to high school by developing skills and behaviors essential to a successful high school experience. Some aspects of the class will include organization, study skills, and time management.

## **Honors U.S. History A & B** -- Required

**Open to:** 10<sup>th</sup>

**Credit:** 2

Content: This course meets the needs of high-achieving students and is designed as preparation for college-level performance. This is a chronological and thematic survey of our nation's past from the Election of 1876 to the present, highlighting America's global role in 20<sup>th</sup> Century. Students will be researching historical cause and effect in political and social events. Special emphasis is given to the impact of medical innovation along with the ensuing social, cultural, and ethical impact of recent medical discoveries. The course promotes an appreciation and awareness of the richness of our history and institutions through research and writing: integrating multiple media sources and writing strategies.

## **Honors American Government A & B** -- Required

**Open to:** 11<sup>th</sup>

**Credit:** 2

Content: This class addresses the course of America's political development and institutions. This is an enriched civics course with an emphasis on citizenship awareness, citizen rights, and promoting individual civic responsibilities. Using the text, *We the People: The Citizen and the Constitution*, this course emphasizes research and writing skills in preparation for multiple performance assessments. This course is challenging in both content and participation and is designed as a college-readiness level class.

## **Psychology I/ Psychology II A** -- Required

**Open to:** 11<sup>th</sup>

**Credit:** 2

**Concurrent credit:** Into to Psych (PSYC 1550) 3 credits available through Northwest Nazarene University.

Content: "A study of the basic principles of human behavior giving attention to developmental patterns, motivation and adjustment, learning and thought processes, and individual differences in aptitude and personality." (Northwest Nazarene University course catalogue). Emphasis is placed on analyzing how these concepts directly affect an individual. As participants in a college level course, students will conduct independent research in connection with the NNU Psychology Research Forum performance assessment.

## **Economics** -- Required

**Open to:** 12<sup>th</sup>

**Credit:** 1

Content: This course introduces the student to the concepts of economics. The course will explain what economics is and how it affects theories and applications of supply and demand. It will also examine the economy from the perspective of banks, businesses, consumers, and government. Finally, this course will look at economics beyond our borders and explore the global nature of our system.

## **Medical Law & Ethics** -- Required

**Open to:** 12<sup>th</sup>

**Credit:** 1

Content: This course is divided into two major parts. The first will introduce students to basic ethical concepts and theories of moral philosophy and the characteristics of systematic moral reasoning. The second part will introduce students to the basic issues and concepts of law. The student will examine both major parts through a medical professional lens. The class will be enhanced through a variety of guest speakers from the medical community.

# Computer/Medical Office Technology



## **Technology & Careers A & B** -- Required

**Open to:** 9<sup>th</sup>

**Credit:** 2

Content: This course will focus on using medical terminology to improve keyboarding skills and create medical documents, such as letters, discharge summaries, and various medical reports. Students will study MS Office applications at the basic level.

Using Idaho cis.org, students will have the opportunity to complete interest and skill inventories and explore many career and educational options in the health sciences field.

### **Medical Office Computer Applications A -- Required**

**Open to:** 10<sup>th</sup>

**Credit:** 1

**Concurrent Credit:** *At the completion of Comp Apps A & B, concurrent credit may be earned through Boise State University.*

**Content:** The health care world today, as well as the world of higher academics, demands proficiency in the common Microsoft Office software applications. Students will become proficient users of Microsoft Office 2016: Word, PowerPoint, Excel and Access. These skills will be correlated, whenever possible, with the type of projects and documents a medical office would require. This course is offered 1st semester.

### **Medical Office Computer Applications B -- Required**

**Open to:** 10<sup>th</sup>

**Credit:** 1

**Concurrent Credit:** *Information Tech & Management (ITM 104/105/106) 3 credits available through Boise State University.*

**Content:** This is a more advanced computer applications class, which allows students to develop their skills using MS Office 2016: Word, Excel and Access. Students will pass the Microsoft Office Specialist (MOS) certification exam in 2016 Word, Excel, Access and PowerPoint. This course is offered 2<sup>nd</sup> semester.

## **World Languages**



### **Spanish I A & B -- Required**

**Open to:** 9<sup>th</sup> & 10<sup>th</sup>

**Credit:** 2

**Content:** This class introduces the student to basic Spanish conversation, vocabulary, grammar, history, and culture. Conversation in Spanish is required. Frequent homework is required.

### **Spanish II A & B -- Required**

**Open to:** 9<sup>th</sup> & 10<sup>th</sup>

**Credit:** 2

**Prerequisite:** Successful completion Spanish 1 A/B

**Content:** This class emphasizes Spanish conversation, vocabulary, structure, reading, writing, culture, and history. Conversation in Spanish is required. Frequent homework is required.

### **Spanish III -- Elective**

**Open to:** 10<sup>th</sup> & 11<sup>th</sup>

**Credit:** 1

**Prerequisite:** Successful completion Spanish II A/B

**Content:** This class emphasizes advanced Spanish conversation, vocabulary, structure, reading, writing, and culture. This class emphasizes conversational Spanish for the Health Care Professional. Conversation in Spanish is required.



# Health Care



## **Health and Wellness A & B** -- Required

**Open to:** 9<sup>th</sup>

**Credit:** 2 (when a full year is completed one PE and one Health credit have been earned)

Content: Health and Wellness A and B will explore wellness by focusing on you and your health, behavior modification, goal setting, fitness, nutrition, body composition, fitness programming, injury prevention, and keys to becoming fit for life. This course includes weekly cardiovascular and muscular workouts, classroom work, projects, and homework. The students will be highly involved in this student centered curriculum and develop skills of fitness testing, heart rate monitoring, body composition testing, weight lifting, aerobic exercise and other skills associated with lifetime health and wellness. Students will leave with an understanding of the importance of physical, emotional, social, and intellectual wellness, thereby incorporating all aspects of health and wellness into their lives.

## **Health and Wellness C & D** -- Required

**Open to:** 10<sup>th</sup>

**Credit:** 2 (one PE credit will be granted at the completion of each semester)

Content: Health and Wellness C and D will explore all dimensions of health including personal care, growth and development, diseases and disorders, drugs and alcohol, mental and emotional health, social health, intellectual health, and environmental health. This course includes weekly cardiovascular and muscular workouts, classroom work, projects, and labs. Students will leave with an understanding of the importance of all dimensions of health and how they are all interdependent of one another.

## **Health Occupations Year One: Orientation to Health Care and Health Services** -- Required

**Open to:** 9<sup>th</sup>

**Credit:** 2

Content: The first year is an overview of a diverse selection of health occupations. Field experience and guest speakers will be two of the methods used to explore these careers. First Aid and CPR are taught. Students will develop skills and pass competencies used in most health occupations.

## **Health Occupations Year Two: Health Professions / Sports Medicine I** -- Required

**Open to:** 10<sup>th</sup>

**Credit:** 2

**Concurrent Credit:** *Intro to Allied Health Professions- 3 credits available through Idaho State University.*

Content: This advanced program prepares students for entry level jobs and/or continuing education. Manual skills development is specific to health care occupations. Emphasis in the class will be on body systems, medical terminology, and competencies to prepare for the Certified Nursing or the Emergency Medical Technician certificates. Students are required to dress appropriately.

## **Health Applications/Job Shadow A & B** -- Required

**Open to:** 11<sup>th</sup>

**Credit:** 2

**Concurrent Credit:** *HE 2221 (Intro to Health Education) 3 credits available through Idaho State University.*

Content: This course introduces students to the knowledge, basic skills and attitudes needed to become a successful health educator, health care or human service worker. Emphasis will be on the National Health Science Standards, health education theories and philosophies, and career opportunities available to be successful in various health careers. Students must provide their own transportation to job shadow work sites and there will be a written contract between student, parents, and MMACHS. Students interested in becoming a health educator, health care or human service worker could then continue in their senior year in CNA, EMT or CMAA class which will qualify them for employment and/or higher education.

## **Emergency Medical Responder (EMT Foundations)** -- Elective

**Open to:** 11<sup>th</sup>

**Credit:** 2

Content: This course is designed to introduce students to the field of Emergency Medical Services (EMS). The primary focus of the Emergency Medical Responder (EMR) is to initiate immediate lifesaving care to critical patients who access the emergency medical system. EMRs possess the basic knowledge and skills necessary to provide lifesaving interventions while awaiting additional EMS response, and to assist higher level personnel at the scene and during transport. Emergency Medical Responders perform basic interventions with minimal equipment.

Students who successfully complete this course will be eligible to sit for the National Registry of Emergency Medical Technicians (NREMT) written and practical certification exams at the EMR level. Students who pass both exams may earn the title of Nationally Registered Emergency Medical Responder, or NREMR.

## **Medical Terminology for Health Professionals** -- Online Elective

**Open to:** 11<sup>th</sup> (10<sup>th</sup> graders who have already taken Spanish 2 may select this as an option\*)

**Credit:** 1

**Concurrent Credit:** *Online Class offered through Idaho State University.*

Content: This course is designed for students to master the language of health care. It will enable students to implement medical terms that relate to body systems and terminology used in a variety of medical careers.

\*Speak with Mrs. Bishop if you want to pursue this option.

## **Sports Medicine II /Athletic Training A & B** -- Elective

**Open to:** 11<sup>th</sup> & 12<sup>th</sup>

**Credit:** 2

**Concurrent Credit:** *KINES 220 (Intro to Athletic Injuries) 3 credits available through Boise State University.*

Content: This course introduces students to the principles of care and prevention of injury, with emphasis on identification and differentiation between minor and major trauma related to sports participation. The content includes, but is not limited to, understanding the NATA Code of Ethics, basic human anatomy, mechanism/treatment and rehabilitation of injury, and administration of athletic training. This program will provide an excellent background for continuation in postsecondary level health occupation programs as well as athletic training programs.

## **Emergency Medical Technician** -- Elective

**Open to:** 12<sup>th</sup>

**Credit:** 3

Content: This course is designed for students to learn the knowledge and skills necessary to assess and manage traumatic and medical emergencies, including bleeding, airway obstructions, cardiac arrest, fractures, emergency childbirth, chest injuries, abdominal injuries, and spinal immobilization. The primary focus of the Emergency Medical Technician (EMT) is to provide basic emergency medical care and transportation for critical and emergent patients who access the emergency medical system. EMTs possess the basic knowledge and skills necessary to provide patient care and transportation. EMTs perform interventions with the basic equipment typically found on an ambulance and are a link from the scene to the emergency health care system.

Students who successfully complete this course will be eligible to sit for the National Registry of Emergency Medical Technicians (NREMT) written and practical certification exams at the EMT level. Students who pass both exams may earn the title of Nationally Registered Emergency Medical Technician, or NREMT.

## **Certified Nursing Assistant -- Elective**

**Open to:** 12<sup>th</sup>

**Credit:** 3

Content: Nursing assistants provide many important duties in caring for those who are ill, recovering from surgery or illness and disease. They have a desire to help others and a compassion for caring. Students will learn theory in the classroom, then demonstrate competency of skills in the laboratory setting. These skills are established by the Idaho Nursing Assistant Curriculum. Students will then spend 40 clinical hours in different health care settings in our community.

Upon successful completion of this program, students will have the opportunity to complete the State of Idaho skills and written competency exam. Successful completion of this process will result in placement on the Idaho Nurse Aide Registry. Employers choose to hire from the Registry knowing these are very competent and well qualified Nursing Assistants.

## **Senior Medical Internship-- Elective**

**Open to:** 12<sup>th</sup>

**Credit:** 3

Content: The internship program is designed to provide students with a work-based learning experience in a professional health care setting. Students will have an opportunity to develop knowledge and skills required by health care workers as they make the transition from students to employees. Through partnerships with community health care organizations, students will gain hands-on experience and will be provided with an opportunity to discover the need for additional education and training as they select an occupational objective based on interest and ability. Students will take the lead in establishing an internship placement, with approval from the internship coordinator.

# Elective Courses



## **Journalism A & B -- Elective**

**Open to:** 11<sup>th</sup> & 12<sup>th</sup>

**Credit:** 2

**Prerequisite:** Depending on interest, teacher approval may be required

Content: In the fall, students will collaborate on various journalism projects; these include profiles of staff, news stories about school events, and features about classes. In the spring, students will take leadership roles on the school's yearbook. They will be responsible for gathering and laying out material for a section of the yearbook. This class requires that students work efficiently under strict deadlines.

## **Drawing and Painting A & B -- Elective**

**Open to:** 11<sup>th</sup> & 12<sup>th</sup>

**Credit:** 2

Content: This course is an introduction to high school level drawing and painting with an emphasis on human form and other health/biological/anatomical foundations. Proportion, perspective, shading, texture, and value scales are introduced. Students will work with acrylics, pen & ink, as well as other art materials.

## **Pharmacy Technology -- Elective**

**Open to:** 12<sup>th</sup>

**Credit:** 1

**Cost:** \$299.00

Content: This self-paced course is delivered online in the computer lab setting using materials provided by PassAssured. It is designed to prepare students to take the PTCB National certification exam and successfully earn a credential as a Certified Pharmacy Technician (C.Ph.T.). This course will be offered 2<sup>nd</sup> semester.

## **Certified Medical Administrative Assistant (Health Information I)-- Elective**

**Open to:** 12<sup>th</sup>

**Credits:** 1

Content: This semester long course will cover the administrative and clerical duties necessary to efficiently manage the front office of a healthcare service provider. These duties include answering phones, billing and bookkeeping, creating and updating patients' electronic health records, verifying and submitting patient insurance, procedure and diagnosis coding, preparing correspondence between medical providers and their patients and providing quality customer service to patients. Student will learn how to use software to manage billing, schedule and input patient information, recording procedure and diagnosis codes, bill third-party payers, post payments, create statements, and run financial and clinical reports. At the end of this semester students will sit for the Certified Medical Administrative Assistant (CMAA) Certification. This course will be offered 2<sup>nd</sup> semester.

## **Personal Finance --Elective**

**Open to:** 12<sup>th</sup>

**Credit:** 1

Content: Personal Finance is everything in your life that involves money. Personal financial planning means spending, saving, and investing your money so you can have the kind of life you want as well as financial security. Learning the steps in the financial planning process will give you a solid foundation for making all your financial decisions, big and small, now and in the future. Topics covered will include career decisions, pay & benefits, taxes, budgeting, checking accounts, saving for the future, credit, renting an apartment, buying/leasing a car, consumer protection, and insurance. This course will be offered 1<sup>st</sup> semester.