

*2011 - 2012*



*Course Description Book*

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## **EQUAL EDUCATIONAL OPPORTUNITIES**

### **GWINN AREA COMMUNITY SCHOOL DISTRICT BOARD OF EDUCATION STATEMENT OF ASSURANCE OF COMPLIANCE WITH FEDERAL LAW**

The Gwinn Area Community School District Board of Education complies with all federal laws and regulations prohibiting discrimination and with all requirements and regulations of the United States Department of Education. It is the policy of the Gwinn Area Community School District Board of Education that no person on the basis of race, color, religion, national origin or ancestry, age, sex, marital status or handicap shall be discriminated against, secluded from participation in, denied the benefits of or otherwise be subjected to discrimination in any program or activity for which it is responsible or for which it receives financial assistance from the United States Department of Education.

Inquiries or complaints may be addressed to:

Kevin Luokkala, Principal  
Gwinn High School  
Gwinn, MI 49841  
906-346-9247

or to the

Director of the Office for Civil Rights  
Department of Health, Education and Welfare  
Washington D.C.

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GWINN HIGH SCHOOL  
GWINN, MICHIGAN 49841

**REQUIRED CREDITS FOR GRADUATION**

21 total credits required

**CLASSES OF 2012, 2013, 2014 & 2015**

English – 4 years  
Math – 4 years  
Science – 3 years  
Social Studies – 3 years  
P.E. – 1 semester  
Health – 1 semester  
Computers – 1 year  
Fine Arts – 1 year

**HIGH SCHOOL COURSES RECOMMENDED FOR COLLEGE**

High school students entering 4-year universities in Michigan are required to have completed the following units:

<b>Area of study</b>	<b>Required</b>
English	4 years
Mathematics	4 credits
Social Studies	3 years
Natural Science	3 years (including 1 year of Biology, 1 year of Physics, and 1 year of Chemistry); 4 years recommended
Computer Literacy	1 year
Foreign Language	Some universities/colleges <u>require</u> 2 years of the same foreign language.
<b>Other recommended units:</b>	
Foreign Language	3 years strongly recommended
Fine/Performing Arts	2 years strongly recommended

## **WEIGHTED COURSES**

Honors English 12

College Biology

College Chemistry

College Physics

Calculus

## **IMPORTANT NOTICE TO STUDENT-ATHLETES**

Student-Athletes wishing to compete in college athletics must meet certain academic standards set forth by the **National Collegiate Athletic Association (NCAA)**. The academic standards relate to how many “core” courses a student has completed in high school, combined with grade point average and ACT or SAT test scores. These academic standards are different for Division I colleges and Division II colleges.

Every student-athlete should visit the NCAA Initial-Eligibility Clearinghouse website to view Division I and Division II requirements so that you can plan your high school courses accordingly. The web address is [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net). Click on “High-School’s List of Approved Core Courses”. A student-athlete should also check with the guidance counselors and athletic director to make sure academic eligibility is being met, as not all questions can be answered via website.

In order to establish eligibility to compete on the collegiate level, each prospective student-athlete must register with the NCAA Initial Eligibility Clearinghouse, typically during the fall semester of the senior year. This is done online at the above web address.

It is the responsibility of the student athlete to make sure she/he is taking the necessary “core” courses.

# ENGLISH

(4 CREDITS REQUIRED)

## ENGLISH 9

Grade: 9

**Prerequisite: None**

English 9 is an inquiry-based classroom which will take the form of a reading and writing workshop. Students will read informational texts, novels, short stories, poetry, a Shakespearean play, etc. They will study the process of writing, with assignments such as responses to literature, personal narratives, creative writing, persuasive writing and research writing. Vocabulary study and grammar exercises are important components of the course. Students also will refine their speaking, listening, viewing, thinking, multimedia and study skills.

## ENGLISH 10

Grade: 10

**Prerequisite: English 9**

English 10 is a portfolio-based classroom which will take the form of a reading and writing workshop. Students will read informational texts, novels, short stories, poetry, a Shakespearean play, etc. They will study the process of writing, with assignments such as responses to literature, personal narratives, creative writing, persuasive writing and research writing. Vocabulary study and grammar exercises are important components of the course. Students also will refine their speaking, listening, viewing, thinking, multimedia and study skills.

## ENGLISH 11

Grade: 11

**Prerequisite: English 10**

English 11 is an American Literature-based classroom which will take the form of a reading and writing workshop. Students will read informational texts, novels, short stories, poetry and plays by notable American poets and playwrights, etc. They will study the process of writing, with assignments such as responses to literature, personal narratives, creative writing, persuasive writing and research writing. Vocabulary study and grammar exercises are important components of the course. Students also will refine their speaking, listening, viewing, thinking, multimedia and study skills.

## ENGLISH 12

Grade: 12

**Prerequisite: English 11**

English 12 is a British Literature-based classroom which will take the form of a reading and writing workshop. Students will read informational texts, novels, short stories, poetry, a Shakespearean play, etc. They will study the process of writing, with assignments such as responses to literature, personal narratives, creative writing, persuasive writing and research writing. Vocabulary study and grammar exercises are important components of the course. Students also will refine their speaking, listening, viewing, thinking, multimedia and study skills.

**HONORS ENGLISH 12**  
**(This is a weighted course.)**

Grade: 12

**Prerequisite: "B" or better in English 11 and teacher recommendation and completion of summer reading.**

This honors English class will model the pacing and assignments of a freshman college composition course along with providing an overview of British and other literature. The emphasis of different models of writing will include such essays as descriptive, narrative, cause/effect, process analysis, illustrative and persuasive essays. Writing as a craft will include writer's workshop, language usage, and research, including a formal research paper. Students will have an opportunity to develop their skills in technical and multi-media writing. To balance the American literature selection offered in the English 11 classes, students will study major British literary movements, along with other literature, to prepare for college freshman level literature courses. Students will be assigned summer reading selections and will have evaluations on them upon return to school in the fall.

**\*\*CREATIVE WRITING/FICTION**  
**(This is a one-semester course.)**

Grade: 9, 10, 11, 12

**Prerequisite: None**

This course will explore the fundamentals of creative writing. Using a workshop format to encourage peer analysis and create an audience, students will develop a variety of original work in which they will explore the artistic relationship between their writing and the creative process. Students will be asked to be self-reflective on their own writing and will learn that writing is a continuous and constant process that evolves during a series of drafts. A wide range of genres will be explored, including: short stories, personal narratives, poetry, multi-genre pieces and journaling. The culmination of the course will be a student compilation anthology.

**\*\*CREATIVE WRITING/POETRY**  
**(This is a one-semester course.)**

Grade: 9, 10, 11, 12

**Prerequisite: None**

This course will explore the fundamentals of writing poetry. Students will examine the work of other poets and try their hand at writing their own original pieces. Using the workshop approach, students will help each other develop, critique, and polish poetry selections. Students will be asked to be self-reflective on their own writing and will learn that writing is a continuous and constant process that evolves during a series of drafts. A wide range of poems and poetic devices will be explored, including: Pantoums, free verse, epic poetry, sonnet, metaphor, alliteration and tone. The culmination of the course will be a student compilation anthology.

**ENGLISH LAB**

Grade: 9, 10, 11, 12

**Prerequisite: Teacher recommendation.**

English Lab is a course designed for students in addition to their general English class to provide additional time and instruction in essay writing, project completion, reading skills, vocabulary building, essay test taking, and grammar mastery. Students who have difficulty completing work on their own, who have struggled to pass English in the past or who want to improve their writing skills for future classes, college or the work force are encouraged to take this class.

# FOREIGN LANGUAGE

(2 TO 3 CREDITS OF THE SAME LANGUAGE RECOMMENDED)

## FRENCH 1

Grade: 9, 10, 11, 12

**Prerequisite:** None

An introductory course emphasizing pronunciation, fundamentals of grammar, vocabulary building and basic communication in the French language. Includes an introduction to the culture of France and French-speaking countries.

## FRENCH 2

Grade: 9, 10, 11, 12

**Prerequisite:** French 1

This course completes the text from French 1, furthering the student's knowledge of French vocabulary, pronunciation, grammar, sentence structure and culture. More reading is included in this course.

## FRENCH 3

Grade: 10, 11, 12

**Prerequisite:** French 2

Reading and further study of language structures are main components of this course. Writing and presenting plays, as well as other writing projects are part of this course. French grammar and culture are reviewed and understanding of them deepened.

## FRENCH 4

Grade: 11, 12

**Prerequisite:** French 3

Reading of French literature, modern and classic, is the major thrust of this course. Report writing in French and discussion of literature in French is expected. Review of French grammatical structures is continued. Some cooperation with French 3 projects takes place for these students.

## FRENCH 5

Grade: 12

**Prerequisite:** French 4

Reading of French literature, modern and classic, is the major thrust of this course. Report writing in French and discussion of literature in French is expected. Review of French grammatical structures is continued. Some cooperation with French 3 projects takes place for these students.

## SPANISH 1

Grade: 9, 10, 11, 12

**Prerequisite:** None

Spanish 1 is an introductory course emphasizing pronunciation, fundamentals of grammar, vocabulary building, and basic communication in Spanish. It includes an introduction to the culture and geography of Spain and Latin America.

## SPANISH 2

Grade: 10, 11, 12

**Prerequisite:** Spanish 1

Spanish 2 is a continuation of Spanish 1 with further practice in pronunciation and study of vocabulary, grammar, sentence structure, and culture.

### **SPANISH 3**

Grade: 11, 12

**Prerequisite:** Spanish 2

Spanish 3 is a continued study of vocabulary, advanced Spanish grammar, and culture, with additional reading of short stories, short novels, and poetry. Included are oral presentations and writing projects.

### **SPANISH 4**

Grade: 12

**Prerequisite:** Spanish 3

Spanish 4 is a review of Spanish vocabulary, verb tenses, and grammar with emphasis on reading of Spanish literature and writing in the language.

**SCIENCE**  
**(3 TO 4 CREDITS RECOMMENDED)**

**SCIENCE REQUIREMENTS/RECOMMENDATIONS**

Each student must take **3 credits of science**, at least one from each category.

<b>Biological</b>	<b>Chemistry</b>	<b>Physics</b>
Conceptual Biology	Conceptual Chemistry	Conceptual Physics
Biology	Chemistry	College Physics
College Biology	College Chemistry	

**A freshman who has had difficulty with science and math in the middle school would take Conceptual Biology.**

**An average to above average freshman would take Biology.**

**SCIENCE SEQUENCE**  
**(check prerequisites)**

<b>9th grade students can take:</b>	<b>10th grade students can take:</b>
Conceptual Biology	Conceptual Biology
Biology	Conceptual Chemistry
	Conceptual Physics
	Chemistry
<b>11th grade students can take:</b>	<b>12th grade students can take:</b>
Conceptual Chemistry	Conceptual Chemistry
Conceptual Physics	Conceptual Physics
College Biology	College Biology
College Chemistry	College Chemistry
College Physics	College Physics

**CONCEPTUAL BIOLOGY**

Grade: 9  
**Prerequisite: High School level reading, writing and math skills.**  
Conceptual Biology will satisfy the state requirements for high school biology. The study of biology is intended to help students understand the world in which they live. Topics include the diversity of living things, genetics, ecology, and living organisms. In order to succeed in this class a student will be expected to demonstrate consistent attendance, mature behavior, completion of all assignments on time, and have high school reading, writing, and math skills. As labs will be an important part of this course, it is critical that students be able to work in cooperative teams and also be able to work independently without direct supervision.

**CONCEPTUAL CHEMISTRY**

Grade: 10  
**Prerequisite: High School level reading, writing and math skills.**  
**Supplies Needed: A scientific calculator and science notebook.**

Conceptual Chemistry will satisfy the state requirements for high school chemistry. Chemistry is the study of the matter that makes up our world. Topics include scientific methods, chemical composition, compounds, elements, chemical reactions, gases, solution chemistry and acid base chemistry. Students will also study the process of chemistry through experimentation. In order to succeed in this class a student will be expected to demonstrate consistent attendance, mature behavior, completion of all assignments on time, and have high school reading, writing, and math skills. As labs will be an important part of this course, it is critical that students be able to work in cooperative teams and also be able to work independently without direct supervision.

### CONCEPTUAL PHYSICS

Grade: 10, 11, 12

**Prerequisite:** High school level reading, writing, math skills and computer skills.

**Supplies Needed:** A scientific calculator and science notebook.

This course will satisfy the state objectives for physical science that include motion, forces, energy, heat, waves, sound and light, electricity, and magnetism. Students are required to have a scientific calculator and should expect to use algebra level mathematics to complete assignments, labs, and tests. In order to succeed in this class a student should be able to create and use a science notebook, complete all assignments on time and demonstrate high school level reading, writing and mathematic skills.

### BIOLOGY

Grade: 9

**Prerequisite:** Students must have at least a "B-" average in 7th and 8th grade Science, Math, & English OR at least a "B-" average in Algebra and English during their freshman year.

This course, in addition to meeting state requirements for biology, is intended to be an in-depth study of living things. Students will gain skills that will prepare them for higher level math and science classes in high school. Biology is the study of life. Biology has several main themes which will be studied in this course. These main themes are: biological processes, cells, taxonomy/classification, ecology, DNA and genetics, and general human anatomy and physiology.

### CHEMISTRY

Grade: 10, 11, 12

**Prerequisite:** High School level reading, writing, and computer skills. Completion of Algebra I with a "C".

This course is an in-depth study of the matter that makes up our universe. Topics include scientific methods, compounds, elements, chemical reactions, gases, solution chemistry and acid base chemistry. Students will also study the process of chemistry through experimentation. This requires the ability to work cooperatively with others as well as independently. This course is recommended for juniors and seniors or sophomores intending to take four years of science.

### COLLEGE BIOLOGY (This is a weighted course.)

Grade: 11, 12

**Prerequisite:** Completed or currently enrolled in Chemistry and completion of Biology with at least a "C".

College Biology is intended for serious students who wish to be academically challenged. It will offer an in-depth study of the main themes of biology (see biology course description), often supplemented with "Advanced Placement" style laboratory experiments meant to reinforce ideas presented in class. There will be an emphasis on human physiology during the second marking period which will include a major dissection. College Biology is primarily designed to prepare students for an introductory biology course during their first year of college. The AP exam may be taken upon completion of this course though it will require additional independent study of the AP topics.

**COLLEGE CHEMISTRY**  
**(This is a weighted course.)**

Grade: 11, 12

**Prerequisite: Algebra 2 (or currently in Algebra 2) and earned at least a “C” in Biology and Chemistry.**

College Chemistry is an advanced study of chemistry intended for students who wish to begin a college curriculum in high school. This class is the equivalent of first year college chemistry. The class offers an in-depth study of the topics in chemistry (above) as well as the additional topics of kinetics, thermodynamics and equilibrium. Students wishing to get a college credit for this class will need to complete some additional independent study in order to meet the requirements of the College Board AP exam. Taking the AP exam for college credit is optional and the cost of the exam is the student's responsibility.

**COLLEGE PHYSICS**  
**(This is a weighted course.)**

Grade: 12, or 11 with permission of instructor

**Prerequisite: Algebra 2 or concurrent registration or permission of instructor.**

This course will focus on college level physics to prepare a student to be successful in a university physics setting. We will focus on kinematics, electricity, waves and optics. All topics will be supported by lab activities often seen in college physics courses. Students will need a scientific calculator, to able to maintain a notebook and work independently on mathematical problems.

If a student desires to take the AP Physics exam, preparation outside the normal curriculum will be necessary. Purchasing the AP Physics book and 6-8 weeks of study before the AP test is recommended.

**HUMAN ANATOMY**

Grade: 11, 12, or 10 with permission from the instructor

**Prerequisite: Completion of Biology with “C-“ or better.**

This is a full year elective course designed for 11th and 12th graders. This course will include the various body systems: the organs/structures; functions; diseases; aging and how all the systems are connected. This course is highly recommended if you are planning a career in any type of medicine, health care, or sports medicine.

# MATHEMATICS

(4 CREDITS REQUIRED)

## MATH SEQUENCE

### 9th Grade students can take:

Intro to Algebra  
Algebra 1  
Geometry  
Algebra Lab

### 10th Grade students can take:

Algebra 1  
Geometry  
Algebra 2  
(Alg. 1 & Geometry may be taken simultaneously with permission from the math dept.)  
Algebra Lab  
Geometry Lab

### 11th Grade students can take:

Money Math  
Algebra 1  
Geometry  
Algebra 2A  
Algebra 2  
Pre-Calculus  
Geometry Lab

### 12th Grade students can take:

Money Math  
Algebra B  
Algebra 1  
Geometry  
Algebra 2  
Pre-Calculus  
Calculus

## ALGEBRA 1

Grade: 9, 10, 11, 12

**Prerequisite:** Successful completion of Pre-Algebra at the 8th grade or high school level.

Algebra 1 is the introductory course in the higher mathematics series. It provides a look at the basic structure of the real number system and basic algebraic techniques. Precise language is emphasized and new skills are developed. Specific topics covered are the language of algebra, operations of real numbers, graphing relations and linear equations, exponents and radicals, polynomials and factoring, quadratic functions and equations, and rational expressions.

## GEOMETRY

Grade: 9, 10, 11, 12

**Prerequisite:** Algebra 1 (with a 70% or better).

This course covers all of the content expectations of the Michigan Mathematics Curriculum for Geometry. The main concentration is on logic and reasoning. Students learn about points, lines, planes and angles; congruency and similarity of triangles; polygons and circles; area and volume; construction, coordinate geometry, and transformations. Although proofs are included throughout the course, much of the work deals with problem solving. A good background in algebra is necessary for a student to achieve success in geometry.

## ALGEBRA 2A

Grade: 10, 11, 12

**Prerequisite:** Algebra 1 and Geometry or currently enrolled in Geometry and teacher recommendation.

The student will acquire advanced skills in algebraic operations and techniques. Emphasis is on the structure of algebra with stress on concepts and reasoning. A study of the structure of

The system of real and complex numbers is made through a review of the basic terminology notation, concepts, skills and applications of algebra.

Specific topics covered are field axioms, linear equations and inequalities in one variable, coordinate plane, factoring, operations with rational numbers, functions, irrational numbers, radicals, quadratics, analytic geometry, exponential functions, logarithm and an introduction to trig functions and vectors.

This course is the first semester of Algebra 2 spread over the full school year.

### **ALGEBRA 2**

Grade: 10, 11, 12

**Prerequisite: Algebra 1 and Geometry, or currently enrolled in Geometry and teacher permission.**

The student will acquire advanced skills in algebraic operations and techniques. Emphasis is on the structure of algebra with stress on concepts and reasoning. A study of the structure of the system of real and complex numbers is made through a review of the basic terminology notation, concepts, skills and applications of algebra.

Specific topics covered are field axioms, linear equations and inequalities in one variable, coordinate plane, factoring, operations with rational numbers, functions, irrational numbers, radicals, quadratics, analytic geometry, exponential functions, logarithm and an introduction to trig functions and vectors.

### **MONEY MATH**

Grade: 11, 12

**Prerequisite: None**

Students learn about money---budgeting, banking, investing, mortgaging, taxes, insurance, and more.

### **PRE-CALCULUS**

Grade: 11, 12

**Prerequisite: Algebra 2**

This course covers all of the content expectations of the Michigan Mathematics Curriculum for Pre-Calculus. The first semester is a review of Algebra 2 at a faster pace and a more advanced level. The second semester concentrates on trigonometry (graphs and identities) and their application. A study of those functions will lead into further study of mathematics, which enables the students to solve problems dealing with triangles, polar coordinates, complex numbers, and logarithms. This course is used to prepare students for college mathematics and the study of calculus. Students who are planning to enter fields in mathematics and related scientific areas are strongly recommended to enroll in this course.

### **CALCULUS**

**(This is a weighted course.)**

Grade: 12

**Prerequisite: Algebra 2 and Pre-Calculus or concurrent enrollment or permission of instructor.**

This is an introductory calculus course that uses the T1-82 or T1-83 graphing calculators to explore the concepts of limits, differentials and integration. While a limited number of calculators are available for student use, a personal calculator is recommended. This course will prepare a student for first year college calculus.

If a student desires to take the AP Calculus exam, preparation outside the normal curriculum will be necessary. Purchasing the AP Calculus book and 6-8 weeks of study before the AP test is recommended.

### **ALGEBRA LAB**

Grade: 9, 10 (11 & 12 with teacher recommendation)

**Prerequisite: Teacher recommendation.**

This is a support class for the regular Algebra class. It is available for students who struggle with mathematics and need additional time to process concepts. Students will be expected to participate in daily reviews of current concepts. Students will also be required to work on daily assignments. Additional homework assistance will be available for students. Students should not view this as a study hall.

### **GEOMETRY LAB**

Grade: 10, 11, 12

**Prerequisite: Teacher recommendation.**

This course is a support class for the regular Geometry class. It is available for students who struggle with mathematics and need additional time to process concepts. Students will be expected to participate in daily reviews of current concepts. Students will also be required to work on daily assignments. Additional homework assistance will be available for students. Students should not view this as a study hall.

# **SOCIAL STUDIES**

**(3 CREDITS REQUIRED)**

## **SOCIAL STUDIES REQUIREMENTS**

**9TH Grade:** World Cultures                      **11th Grade:** American Government & Economics  
**10th Grade:** American History

### **WORLD CULTURES**

Grade: 9  
**Prerequisite: None**

The World Cultures curriculum is designed to give the student a global perspective by examining seven cultural regions of the world. The students will explore and analyze the geography, history, religion/philosophies, values systems, cultural factors such as language, art, music, and contemporary issues including the economic situation for each region. By the end of the course the students should be able to compare these cultural factors across a global perspective. The goal of the course is to prepare students for the ever-growing interdependence of the world in which they will live and work, and to help prepare them for their responsibilities as participating citizens of the global society in the 21st century. To achieve these goals, research, technology, analysis, and critical thinking skills will be developed.

### **AMERICAN HISTORY**

Grade: 10  
**Prerequisite: None**

This survey course will study the social, economic and political aspects of our nation's history from the Industrial Revolution through the elections of 2010. Emphasis will also be on the global interconnectedness of the United States given our status as a world power during the period being studied.

### **AMERICAN GOVERNMENT** **(This is a one semester class.)**

Grade: 11  
**Prerequisite: None**

This course is designed to provide the student with a working knowledge of the history and principles of America's form of government, as well as state and local governments. Emphasis is placed upon the U.S. Constitution; the intent of the founders and framers; and the legitimate role of government as described by the founding documents.

### **ECONOMICS** **(This is a one semester class.)**

Grade: 11  
**Prerequisite: None**

This course is designed to introduce the student to the basic economic principles governing micro, macro, international and personal economics. Economics as related to business applications is included, as is a unit covering personal finance.

### **CURRENT EVENTS** **(This may be taken for a semester or full year.)**

Grade: 10, 11, 12  
**Prerequisite: None**

This class will be geared to following local, state, national and world events by using the media as a source of information for daily discussions of the impact they may have on society.

## INTRODUCTION TO LAW

Grade: 9, 10, 11, 12

**Prerequisite: None**

Students would learn basic criminal justice procedures, legal terms, court proceedings, and rights. This course would culminate with a mock trial with students participating as jurors, defendant, defense attorney, prosecutor, witnesses and judge.

# PHYSICAL ED./ HEALTH/ WELLNESS

(.5 CREDIT P.E. REQUIRED; .5 CREDIT HEALTH REQUIRED)

**\*\*Denotes one-semester course**

## **\*\*PHYSICAL EDUCATION 1** **(This is a one-semester course.)**

Grade: 9, 10, 11, 12

**Prerequisite: None (This is a required course for graduation.)**

Class content consists of an awareness, understanding, and need for physical exercise through the following activities: touch football, flag football, softball, track, tennis, soccer, basketball, volleyball, badminton, weight training, endurance runs, obstacle course runs, wrestling, physical fitness, and free activity. Grading will be based on participation, skill testing, and written tests. Two twelve minute runs per marking period will be required for completion of the course.

## **PHYSICAL EDUCATION 2**

Grade: 10, 11, 12

**Prerequisite: P.E. 1 with "C" grade or better.**

This class is designed for female and male students who have an interest in weight training, agility, and flexibility techniques. Students must have a desire to improve their personal physical fitness and conditioning. Students will also have the opportunity to perform various activities based on individual preference. Student's selection of activities depends on the supplies and equipment in the total physical education program. Course credit will be determined by attendance, dress, behavior, participation, performance, skill, and written tests.

## **PHYSICAL EDUCATION 3**

Grade: 11, 12

**Prerequisite: P.E. 2 with a "C" grade or better.**

This class is designed for female and male students who have an interest in *advanced* weight training, agility, and flexibility techniques. Students must have a desire to improve their personal physical fitness and conditioning. Students will also have the opportunity to perform various activities based on individual preference. Student's selection of activities depends on the supplies and equipment in the total physical education program. Course credit will be determined by attendance, dress, behavior, participation, performance, skill, and written tests.

## **PHYSICAL EDUCATION 4**

Grade: 12

**Prerequisite: P.E. 1 with "C" grade or better, teacher recommendation and/or approval, willingness to participate, and a desire to improve in physical fitness conditioning and enjoyment.**

To earn course credit, students must perform various activities based on the individual preference of each student. Student's selection of activities depends on the supplies and equipment in the total physical education program. Students must also earn a passing score on written and performance tests based on the discretion of the instructor.

## **WEIGHTLIFTING**

Grade: 12

**Prerequisite: Completion of P.E. 1.**

This course is designed for those individuals interested in learning the proper mechanics and techniques used to increase strength and flexibility through the use of both free weights and machines. It can be tailored to the needs of those just starting out, or the advanced athlete looking to maximize their athletic potential.

**\*\*HEALTH EDUCATION**  
**(This is a one-semester course.)**

Grade: 9

**Prerequisite: None**

This course will cover the Michigan Merit Curriculum recommendations with the following content:

- Strand 1: Nutrition and Physical Activity
- Strand 2: Alcohol, Tobacco and Other Drugs
- Strand 3: Safety/Violence Prevention
- Strand 4: Social and Emotional Health
- Strand 5: Personal Health and Wellness
- Strand 6: HIV Prevention
- Strand 7: Sexuality Education

Through health education, students learn to obtain, interpret, and apply health information and services in ways that protect and promote personal, family and community health.

**HEALTH 2**

**(\*This class is required for any student interested  
in a health care related internship their senior year.)**

Grade: 10, 11, 12

**Prerequisite: Completion of Health Education.**

This is a full year course designed for **10th, 11th and 12th** graders who have already taken Health Education. If you are interested in learning about careers in health care/medicine, have an interest in health related topics, or want to learn more about improving your health, then this is the class for you. In this course we will explore various health care occupations, different health care career programs from MGHS and NMU, American Heart Association CPR/AED certification, medical terminology, alternative/integrative medicine, health news topics, legal and ethical issues in health care, nutrition education and disease prevention.

**PERSONAL WELLNESS**

Grade: 10, 11, 12

**Prerequisite: None**

This is a full year physical education elective. If you would like to try different activities that promote fitness, gain confidence in your abilities, and release those powerful endorphins, then sign up for Personal Wellness. This is a **non-competitive fitness class** that will focus on different activities such as weight training, Tai-Chi, pilates, yoga, aerobics/cardio, dance, kickboxing, walking, snowshoeing, toning and other activities. Various fitness videos will be utilized for the different activities. There will be about 4-8 nutrition lessons in the classroom each semester.

**PERSONAL WELLNESS 2**

Grade: 11, 12

**Prerequisite: Completion of Personal Wellness.**

This is a full year physical education elective class for students who have taken Personal Wellness. You will complete similar workouts as Personal Wellness and you will have the opportunity to design and instruct a workout with a group. If you love to workout, are ready to take it to the next level and want to challenge yourself, then this class is for you! There will be about 4-8 nutrition lessons in the classroom each semester.

# **BUSINESS & COMPUTER EDUCATION**

**(1 COMPUTER CREDIT REQUIRED)**

## **NOTICE TO POTENTIAL BUSINESS STUDENTS**

Daily attendance is extremely important in each business class. Because we use professional grade software, the assignments must be completed during the class period or during the school day. You **may not** be able to make up work at home. If you miss class time for **ANY REASON**, you must schedule extra time in the business lab to complete the missed work. Long periods of absences due to suspension, extended vacation, or illness will inhibit your success in the course a great deal.

### **DIGITAL DESIGN APPLICATIONS**

**(This is a one-year course.)**

Grade: 10, 11, 12

**Prerequisite: None**

This course is recommended for those students who have basic keyboarding skills and are interested in working with business correspondence and business related projects. During the first semester, this course will involve word processing skills, spreadsheet skills and desktop publishing skills. Students will be taught to use Word, Excel and Publisher from the Microsoft Office 2007 software package. In the second semester, students will use Adobe Photoshop elements to develop customized pictures. They will create custom logos, learn to work with layers, restore/retouch old photographs, learn digital image editing, as well as create graphical business documents. Students will develop critical thinking skills while learning to critique each other's work.

### **BUSINESS COMPUTER APPLICATIONS**

**(This is a one-year course.)**

Grade: 10, 11, 12

**Prerequisite: None**

This course is recommended for those students who have basic keyboarding skills and are interested in working with business correspondence and business related projects. During the first semester, this course will involve word processing skills, spreadsheet skills and desktop publishing skills. Students will be taught to use Word, Excel and Publisher from the Microsoft Office 2007 software package. In the second semester of this course students will complete presentations in PowerPoint and learn about databases, using Microsoft Access. Also within the second semester, students will complete an office simulation that incorporates and demonstrates how the Microsoft Office 2007 Suite works together.

### **ENTREPRENEURSHIP**

**(This is a one-year course)**

Grade: 11, 12

**Prerequisite: "C" or better in Digital Design Applications (also known as Microsoft Office/Digital Graphic Design) or "C" or better in Business Computer Applications.**

This course is recommended for students who would like to continue to learn about entrepreneurial field. This course will have students learning to open a business. Students will also be learning how to manage and market their business. Students will be using multiple software packages to complete the projects.

**ADVANCED DIGITAL DESIGN APPLICATIONS**  
**(This is a one-year course, 2-hour block class.)**

Grade: 11, 12

**Prerequisite: "C" or better in Digital Design Applications.**

This course is recommended for those students who would like to continue creating documents in Adobe Photoshop Elements. Additional projects may include designing the school yearbook, working with local businesses to create needed graphic design products; working collaboratively with the elementary school on projects. This course will also introduce using video design software and possibly web design. Examples of videos and/or websites may include, a Public Service Announcement, a commercial/website for related product, or an infomercial with website for a related project. Students will also learn some photography techniques to apply within their projects.

# TECHNOLOGY EDUCATION

## INDUSTRIAL TECHNOLOGY

Grade: 9, 10, 11, 12

**Prerequisite: None**

This class will offer students exposure to both woodworking and welding. The woods portion of the class will introduce students to hand tools, power tools and electric hand tools. Students will become familiar with the table saw, planer, band saw, jointer, miter saw and radial arm saw. Students will be required to build a fold-out chair and a U.P. bench as well as come up with at least one project of their own. The metals portion of the class will be devoted to three areas: Oxygen Acetylene cutting, arc welding and Oxy Acetylene welding. Safety will be the primary goal for both the woods and metal portion of the class.

## BUILDING TRADES

**(This is a 2-hour block class.)**

Grade: 11, 12

**Prerequisite: None**

This class is designed to give an in-depth experience to students in the construction field. We will cover carpentry, masonry, electrical and plumbing work both in and out of the classroom. This class is a two hour block which is available for juniors and seniors with possible availability to sophomores pending teacher approval. The class will take place on various job-sites around town, as well as in the school building. There will also be job-shadowing field trips to local job sites run by local builders. This class will also count as a fourth year math credit.

## NOTICE TO POTENTIAL CADD STUDENTS

Daily attendance is extremely important in each CADD class. Because we use professional grade software, the assignments must be completed during the class period or during the school day. You **CANNOT** make up work at home. If you miss class time for **ANY REASON**, you must schedule extra time in the CADD room to complete the missed work. Long periods of absences due to suspensions, extended vacations, or illnesses will inhibit your success in this course a great deal.

## C.A.D.D. 1

### Introduction to Drafting and AutoCAD

**\*Note: Counts as required computer credit.**

Grade: 10, 11, 12

**Prerequisite: None**

Drafting is essentially the drawing process that is used to show how something is made. This type of *technical* drawing will focus a great deal on accuracy, neatness, and use of geometry.

This course is considered the introductory level class for Computer Aided Drafting and Design (CADD). Students will work their way from sketching and lettering by hand, into AutoCAD so they can do drafting on the computer, and finally, they will take their design skills into the shop where they will design and build their own CO2 powered dragster.

This type of course typically appeals to people that like to draw, build or plan things, or may be considering an engineering, manufacturing, or construction as a career. **Good attendance is critical to success in this course. (NMU Articulation: 4cr)**

#### **C.A.D.D. 2**

##### **Introduction to SolidWorks and Manufacturing**

Grade: 10, 11, 12

**Prerequisite: "C" or better in C.A.D.D. 1.**

After completing CADD 1, this course will take students into the realm of solid modeling for drafting and design work. Students will learn to use SolidWorks software and complete 3D models and assemblies. The course will serve as an introduction to the communication needed between designers, engineers, and the manufacturing floor. Students will look at various manufacturing tools and explore the difference between designing for a prototype and designing for small production runs. Students will also compete in the MITES drafting competition and be exposed to the manufacturing shop near the end of the year. If students are considering a career in manufacturing or engineering, this course would be a great exposure. **Good attendance is critical to success in this course. (NMU Articulation: 4cr – if student completes CADD 3)**

#### **C.A.D.D. 3**

##### **Advanced SolidWorks/Design for Manufacturing/Team Dynamics**

Grade: 11, 12

**Prerequisite: "C" or better in C.A.D.D. 2.**

This culminating class will take students into a few of the advanced features of SolidWorks that make them a more effective drafter and designer. After the introduction in CADD 2, students will hone skills in larger assemblies and drawings while designing products in CADD3. This course will have students working in between the CADD lab and Manufacturing lab in a team environment. Students will be welding, cutting, and finishing full products of their own design. In the spring, CADD 3 students have traveled to Milwaukee for the annual Industry Tour. **Good attendance is critical to success in this course. (NMU Articulation: 4cr – if student completes CADD 2)**

# ART / VISUAL ARTS

## ART 1

Grade: 9, 10, 11, 12

**Prerequisite: None**

The first year student will cover many of the basic areas of art. The course will provide opportunities to work with various art media and a number of different projects. The student will receive instruction and experience in color, painting, perspective, drawing, pottery, lettering, sculpture, commercial art and art appreciation.

## ART 2

Grade: 10, 11, 12

**Prerequisite: Art 1**

The second year student will do advanced work in art and design. There will be an opportunity to work with a variety of materials and projects that were not covered in Art 1. The student will be able to do independent work on projects of his or her own choice in addition to the assigned projects. Assigned projects in similar areas to Art 1 will be at an advanced level of skill and knowledge. Major areas in the course include painting with watercolor and acrylics, printmaking, textiles, weaving, sculpture, drawing and pottery.

## ART 3

Grade: 11, 12

**Prerequisite: Art 1 & 2**

The third year student receives project assignments and is also given the opportunity to work in his or her chosen area. The student may concentrate on major areas such as painting, sculpture or pottery. Media and projects that are not covered in the first two years of art are included in the third year course.

## ART 4

Grade: 12

**Prerequisite: Art 1 & 2 (or instructor's approval based on a portfolio review of previous art work).**

The fourth year course provides the serious art student the opportunity to continue with advanced work. Assignments will be made but the student will also experiment with various media and concentrate on his or her own special areas. If the student should choose to pursue an art career, he or she will be given assistance in contacting various art schools and universities before graduation from high school.

# MUSIC

## CONCERT BAND

Grade: 9, 10, 11, 12

**Prerequisite: Ability to play an instrument.**

Concert Band is the foundation of the instrumental music program and is open to any GHS student who can play a band instrument. For approximately the first nine weeks of school, the band functions as the "Modeltowner" Marching Band. Rehearsals outside of the school day may be required at the discretion of the director. All performances and rehearsals are required and graded.

Following the marching season, the concert band prepares for the Christmas Concert, festivals, and the spring concert. Members of the concert band are encouraged to study privately and audition for the District XIV Honors Band held in December. Students are also encouraged to participate in Solo & Ensemble Festival at the district and state level.

## JAZZ BAND

Grade: 9, 10, 11, 12

**Prerequisite: An audition consisting of pre-selected material and sight-reading chosen by the director.**

The GHS Jazz Band is a select group that performs serious jazz literature and contemporary and popular music styles in a setting which allows the student to experiment with jazz solo improvisation techniques and real world performance situations. Because of the excellent reputation this group has earned, they are sought after for numerous performances throughout the school year including the GHS home basketball games and other events around the area, the NMU Jazz Festival, and a possible spring recruiting to district and area schools. Members of this group are encouraged to audition for the District XIV Honors Jazz Band, participate in Solo & Ensemble Festival, and other activities as they arise. Students with a special ability in the rhythm area such as guitar, bass, piano, set drums are encouraged to contact their director if not currently playing a standard band instrument. Music reading ability is required for all jazz band members.

## MIXED CHORUS

Grade: 9, 10, 11, 12

**Prerequisite: None**

The Gwinn High School Chorus is a group of students who enjoy singing and are interested in improving their vocal techniques. Open to all students. Required events include the Marquette County Pops Concert (Big Sing), the holiday and spring concerts, choral festival, graduation, and other events to be announced.

## CHORALE

Grade: 9, 10, 11, 12

**Prerequisite: An audition and/or instructor permission necessary to enroll in this course.**

The Gwinn High School Chorale is a group of advanced singers who are very serious about vocal performance. Audition and/or instructor permission necessary to enroll in this course. Required events include the Marquette County Pops Concert (Big Sing), the holiday and spring concerts, choral festival, solo and ensemble festival, graduation and many other special community performances to be scheduled.

# OTHER

## FUTURES

Grade: 9, 10, 11, 12

**Prerequisite: None**

This "home-room" type course is required for all students at Gwinn High School. It covers a wide variety of topics including: career exploration, ACT/MME prep, character development and social skills/techniques.

