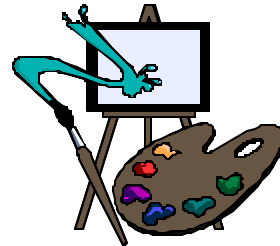
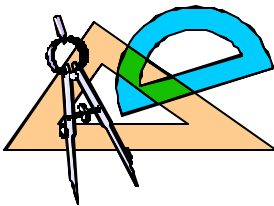
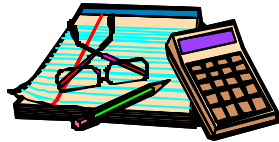
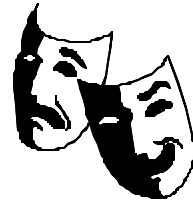
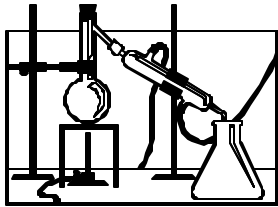


# GRAYLING HIGH SCHOOL 2004-2005

## CURRICULUM GUIDE



## GRADUATION REQUIREMENTS

### (CLASSES OF 2005)

- I. Students graduating from Grayling High School regular day session:
- A. Must attend four (4) years of full time school, which may include up to half time post high school educational opportunities during the senior year.
  - B. Must earn a minimum of twenty-two (22) approved credits.\*
  - C. Must have earned:
    - 1. 4 credits of Language Arts - English including 2 credits of literature, 1 ½ credits of writing and ½ credit from the following group: Debate, Forensics, Drama, Oral Communications, Positive Peer Involvement, or Student Senate.
    - 2. 2 credits of math.
    - 3. 2 credits of science.
    - 4. 3 credits of social studies including one credit of Ninth Grade Social Studies (Social Studies 1), one credit of Tenth Grade Social Studies (Social Studies 2), and one credit of elective social studies classes.
    - 5. ½ credit each of Physical Education and Health.
    - 6. ½ credit of Computer Science or equivalent.
    - 7. 1 credit of one or a combination of the following areas:
      - a. fine or performing arts.
      - b. world language.
      - c. vocational education or practical arts.
  - D. All requirements cited above must be met except in the case where individuals are approved for an individually prescribed alternative educational program by the building Individual Educational Planning Team.
  - E. According to the Michigan School Code, students have the privilege to demonstrate competency in any of their required classes upon request to the principal. If competency is satisfactorily demonstrated, the class will be waived with no credit given.

\*Classes that meet one period per day, five days per week for one semester or equivalent are assigned one half (1/2) credit, with the exception of School Service which earn 1/4 credit each.

- II. Community Service: In order to develop a sense of community responsibility, students are required to complete a minimum of 40 hours of community service within their four years or ten hours per year for those enrolling at GHS after their freshman year.

Forty hours of community service should be documented in the counseling office by the first week in May of a student's senior year.

# GRADUATION REQUIREMENTS

(CLASSES OF 2006 AND 2007)

**\*Please note the change in graduation requirements beginning with this class is in the Social Studies area.**

- I. Students graduating from Grayling High School regular day session:
  - A. Must attend four (4) years of full time school, which may include up to half time post high school educational opportunities during the senior year.
  - B. Must earn a minimum of twenty-two (22) approved credits.\*\*
  - C. Must have earned:
    1. 4 credits of Language Arts - English including 2 credits of literature, 1 ½ credits of writing and ½ credit from the following group: Debate, Forensics, Drama, or Oral Communications.
    2. 2 credits of math.
    3. 2 credits of science.
    4. 3 credits of social studies including one credit of Social Studies 1\*, one credit of Social Studies 2\*, one semester of Social Studies 3\*, and one semester of elective social studies.
    5. ½ credit each of Physical Education and Health.
    6. ½ credit of Computer Science or equivalent.
    7. 1 credit of one or a combination of the following areas:
      - a. fine or performing arts.
      - b. world language.
      - c. vocational education or practical arts.
  - D. All requirements cited above must be met except in the case where individuals are approved for an individually prescribed alternative educational program by the building Individual Educational Planning Team.
  - E. According to the Michigan School Code, students have the privilege to demonstrate competency in any of their required classes upon request to the principal. If competency is satisfactorily demonstrated, the class will be waived with no credit given.

\*\*Classes that meet one period per day, five days per week for one semester or equivalent are assigned one half (1/2) credit, with the exception of School Service which earn 1/4 credit each.

- II. Community Service: In order to develop a sense of community responsibility, students are required to complete a minimum of 40 hours of community service within their four years or ten hours per year for those enrolling at GHS after their freshman year. The service will be documented by the person or organization where the work is performed, and kept in the student's portfolio.

Forty hours of community service should be documented in the counseling office by the first week in May of a student's senior year.

## GRADUATION REQUIREMENTS

### (CLASSES OF 2008)

**\*Please note the change in graduation requirements beginning with this class is in the Language Arts and Science areas.**

- I. Students graduating from Grayling High School regular day session:
  - A. Must attend four (4) years of full time school, which may include up to half time post high school educational opportunities during the senior year.
  - B. Must earn a minimum of twenty-two (22) approved credits.\*\*
  - C. Must have earned:
    1. 4 credits of Language Arts - including ½ credit from the following group: Drama, Oral Communications, or Student Senate.
    2. 2 credits of math.
    3. 2 ½ credits of science, including one credit of life science; one credit of physical science and ½ credit of earth science.
    4. 3 credits of social studies including one credit of Social Studies 1\*, one credit of Social Studies 2\*, one semester of Social Studies 3\*, and one semester of elective social studies.
    5. ½ credit each of Physical Education and Health.
    6. ½ credit of Computer Science or equivalent.
    7. 1 credit of one or a combination of the following areas:
      - a. fine or performing arts.
      - b. world language.
      - c. vocational education or practical arts.
  - D. All requirements cited above must be met except in the case where individuals are approved for an individually prescribed alternative educational program by the building Individual Educational Planning Team.
  - E. According to the Michigan School Code, students have the privilege to demonstrate competency in any of their required classes upon request to the principal. If competency is satisfactorily demonstrated, the class will be waived with no credit given.

\*\*Classes that meet one period per day, five days per week for one semester or equivalent are assigned one half (1/2) credit, with the exception of School Service which earn 1/4 credit each.

- II. Community Service: In order to develop a sense of community responsibility, students are required to complete a minimum of 40 hours of community service within their four years or ten hours per year for those enrolling at GHS after their freshman year. The service will be documented by the person or organization where the work is performed, and kept in the student's portfolio.

Forty hours of community service should be documented in the counseling office by the first week in May of a student's senior year.

## **SCHEDULING PROCESS**

Our process places major responsibility for schedule development on the individual student with major input from counselors and parents. The following steps are to be followed:

1. Pre-registration: Students will meet with their class in meetings for discussion of required courses, electives, graduation requirements, college prep curriculum, vocational courses, and the scheduling process. These meetings will be repeated for incoming freshmen and their parents. Pre-registration sheets must be signed by parents and returned to the counseling office by a date to be announced. Parents are encouraged to contact the counseling office regarding any questions concerning this process or specific course selections.
2. Each student is required to enroll in seven (7) credited classes each semester.
3. Any student who fails to turn in a schedule will have one developed for them. This schedule will not be subject to change.
4. All student pre-registration information will be tallied to determine how many sections of each class must be offered. A master schedule indicating which class is offered each hour with each teacher will be designed.
5. Actual student schedules will be developed by computer. An attempt will be made to meet as many of the student's pre-registration requests as possible.
6. Students who have mistakes in a schedule due to the unsuccessful completion of required courses or computer conflicts, etc., will be able to make necessary schedule changes **prior** to the start of each semester by making an appointment with their counselor.
7. Students must have authorization from their counselor to drop a class. If their counselor feels their reason for dropping a class is valid and warrants such action, the student may be dropped from the class. Students must live with their commitments. Parents disagreeing with the counselor's decision may appeal that decision, in writing, to the principal. **UNLESS EXTENUATING CIRCUMSTANCES PREVAIL, CLASSES MAY NOT BE DROPPED OR CHANGED.**

### **SPECIAL NOTE FROM THE PRINCIPAL**

**Courses listed in this guide may or may not be offered every year. We will do our best to run classes that meet the needs of our students.**

## **Career Pathways Info**

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# COURSE DESCRIPTIONS

## CORE CURRICULUM

### LANGUAGE ARTS - (LITERATURE AND COMPOSITION)

LANGUAGE ARTS STRATEGIES 1 (9)	MULTICULTURAL LITERATURE (11-12)
LANGUAGE ARTS STRATEGIES 2 (9-10)	AMERICAN NOVELS (11-12)
ENGLISH 9 (9)	WRITING FROM REASON (11-12)
ENGLISH 10 (10)	PERSUASIVE & RESEARCH WRITING (11-12)
CREATIVE WRITING (10-12)	SENIOR LITERATURE (12)      READING & SENIOR
	WRITING WORKSHOP (11)      SENIOR
	COMPOSITION (12)
AMERICAN LITERATURE (11-12)	ADVANCED PLACEMENT LITERATURE
WORLD LITERATURE(11-12)	& COMPOSITION (12)
<b><u>ORAL COMMUNICATIONS</u></b>	<b><u>ELECTIVES</u></b>
ORAL COMMUNICATIONS (11-12)	INTRODUCTION TO PUBLICATIONS (9-11)
DRAMA (10-12)	NEWSPAPER (10-12)
STUDENT SENATE (9-12)	YEARBOOK (10-12)
	FILM APPRECIATION (10-12)
	PPI (10-12)

Students must choose from the Language Arts categories to fulfill the 4 required credits for graduation, including ½ credit from the oral communications classes. It is highly recommended that students take one literature and one composition class per year. The following classes are year long classes and cover both literature and composition: Language Arts Strategies 1 and 2, English 9, English 10, and Reading & Writing Workshop. "Prerequisite" courses: Minimally means "successful completion" of courses.

#### **LANGUAGE ARTS STRATEGIES 1** (one credit, full year)

**GRADE 9**

Prerequisite - Teacher approval required.

This class is designed for students who need to improve in specific areas of Language Arts. The focus will be on activities to help students improve decoding skills, reading comprehension, and writing skills. This class will prepare students for Language Arts Strategies 2. The class is limited to 15 students.

#### **LANGUAGE ARTS STRATEGIES 2** (one credit, full year)

**GRADES 9-10**

Prerequisite – LAS 1 or teacher approval

This class is designed to provide assistance to students in specific areas of reading, comprehension, and writing. Language Arts Strategies 2 will prepare students for English 9 and the MEAP test. The writing process will be taught and students will be exposed to various genres of literature.

#### **ENGLISH 9** (one credit, full year)

**GRADE 9**

This course is designed to integrate reading and writing skills throughout the year. Major types of literature will be studied. Oral and written expositions will be considered and applied to the works in an effort to foster development of critical thinking and writing skills. Other areas of emphasis include vocabulary, spelling, paragraph structure, grammar and essay writing. A continued awareness of the importance of language usage will be emphasized.

## **LANGUAGE ARTS CONTINUED**

### **ENGLISH 10** (one credit, full year)

**GRADE 10**

Prerequisite: English 9 or Instructor approval.

This course will integrate reading and writing skills over the course of the school year. Students will be exposed to the major types of literature. Emphasis will be placed on comprehension and analysis of the works using higher order thinking skills. Oral and written exposition will center on the works studied while also incorporating language and usage skills. The development of vocabulary, spelling, grammar and sentence structure as it relates to the writer will be covered.

### **CREATIVE WRITING** (½ credit, one semester)

**GRADES 10-12**

Prerequisite: Successful completion of English 9

This course is designed for students interested in expressing ideas and emotions through writing poetry, short stories, and creative nonfiction. Writers must be eager to experiment in different literary forms and to share their weekly exercises aloud. This class also encourages students to read literature. By sharing work-in-progress, students will learn from and support one another, and begin to develop critical judgment. Students taking this course will also be encouraged to publish their work and take part in contributing to the school newspaper.

### **READING & WRITING WORKSHOP** (1 credit; full year)

**GRADE 11**

Reading & Writing Workshop is primarily for 11<sup>th</sup> grade students who wish to improve their English skills through reading and writing. The main focus of the course is building and reinforcing good writing skills and techniques. Sentence structure, content, organization, grammar, and writing forms are studied and practiced with each assignment. Specific writing and reading techniques and the writing process are taught. Class discussion, current events, literature, personal experiences and technology usage are prompts for writing ideas in class. For those who are seeking additional practice to prepare for the MEAP test, this class is highly recommended.

### **AMERICAN LITERATURE** (1/2 credit, one semester)

**GRADES 11-12**

Prerequisite: English 10 or Instructor Approval

This course is designed to cover the development of American Literature from the colonial period through the modern era. Through the study of various units covered, the student should gain an awareness of our written and cultural heritage, as well as a general knowledge of major American writers. This course is recommended for those students who are planning to further their education.

### **WORLD LITERATURE** (1/2 credit, one semester)

**GRADES 11-12**

Prerequisite: English 10 or Instructor Approval

This course of study involves a variety of literary types set in eight thematic units. Works by various world writers are included. This course is recommended for those students who are planning to further their education. Through discussion and written exposition, this class will aid in the development of critical thinking skills.

### **MULTICULTURAL LITERATURE** (½ credit, one semester)

**GRADES 11-12**

Prerequisite: English 10

Students will read a variety of texts including novels, poetry, short stories, and non-fiction. These readings, along with the culture reflected in the piece, will be discussed and compared based on common themes and ideas found in the texts. Writing assignments and multi-media projects will be implemented to assess student achievement.

### **AMERICAN NOVELS** (1/2 credit, one semester)

**GRADES 11-12**

Prerequisite: Writing from Reason or Instructor Approval

The purpose of this course is to prepare high school students for college level literary analysis and expository essay examinations. Students will read, critique and evaluate classic American novels, authors and writers and various literary movements. Books studied will range from the naturalism of Dreiser to the psychological realism of Faulkner. The students will be evaluated by a written essay examination covering each novel studied. Strong consideration in this course will be given to increasing reading rate and comprehension, discussing the full implication and meaning of each novel and improving ability to construct effective essay examinations.

## **LANGUAGE ARTS CONTINUED**

### **WRITING FROM REASON** (1/2 credit, one semester)

**GRADES 11-12**

Prerequisite: Management Support 1 recommended or computer skills, English 10 or Instructor Approval

The purpose of this class will be to develop the ability of the college preparatory student to construct an effective and coherent formal essay. Assigned composition topics will require the use of critical thinking skills. Grammatical studies will include sentence structure and variety, unity and coherence in paragraph development and logical considerations in expanding the topic into a coherent essay. Correct spelling and appropriate choice of words will be stressed throughout the course. Specific study skills relevant to the college bound student will be taught.

### **PERSUASIVE AND RESEARCH WRITING** (1/2 credit, one semester)

**GRADES 11-12**

Prerequisite: Writing From Reason, Management Support 1 recommended or computer skills

This is a course intended for the college preparatory student. It deals with two areas of composition: argumentation and research. The use of inductive and deductive logic and clearly argued propositions to develop formal compositions will be stressed during the course. The majority of the course will be based upon the completion of several research papers. During the production of the research papers, format of the research paper, documentation and research tools will be studied.

### **SENIOR LITERATURE** (1/2 credit, one semester)

**GRADE 12**

Prerequisite: Reading & Writing Workshop or Instructor Approval

This course is intended to provide continuing exposure to reading and various forms in literature. High interest novels and short stories will be used to stimulate reading, discussion and critical evaluation expressed in written composition and essay. This course is not recommended for students pursuing a college education.

### **SENIOR COMPOSITION** (1/2 credit, one semester)

**GRADE 12**

Prerequisite: Reading & Writing Workshop or Instructor Approval

This is the final composition course for the senior following a general education curriculum. It is intended to provide continuing skill development in the areas of grammar, composition, spelling and vocabulary. Stress will be upon the development and revision of clearly written compositions. This course is not recommended for students pursuing a college education.

### **ADVANCED PLACEMENT COMPOSITION AND LITERATURE**

**GRADE 12**

(1 credit, full year)

Prerequisite: Persuasive and Research Writing, American Novels or Instructor Approval

This course is designed to prepare the serious student for college level formal writing. This course will be considered the equivalent of one semester of Freshman Composition and/or Introduction to Literature at a major college or university. Coherence, structure, logic, style, and effectiveness in expression will be of considerable importance. Discussion and composition topics will be derived from sources read during the semester. The student will consider theory and criticism of masterpieces of universal appeal and acclaim. Literary evaluation will be of primary importance, and each student must achieve an advanced level of formal analysis. A seminar approach to the study of literature will be utilized. The goal of this course will be to prepare the student for the A.P. Examination in Literature and/or Composition. This course is also listed in the composition section.

## LANGUAGE ARTS CONTINUED

### ORAL COMMUNICATIONS

Students must complete one of the following courses to satisfy the oral communications requirement. If more than one course is completed, elective credit will be earned.

#### ORAL COMMUNICATIONS (1/2 credit, one semester)

**GRADES 11-12**

This course will prepare students to deliver formal speeches, to take part in an organized group discussion, and to participate in a formal debate. Principles of effective outlining, formal library research, and development of listening skills will be stressed. Students will have the opportunity to experience a variety of oral communication activities.

#### DRAMA (1/2 credit, one semester)

**GRADES 10-12**

In Drama class, students will study dramatic literature and performance. Students will perform material from the dramatic works studied in class on stage in small groups, in duos, and as individuals. Students will write and perform their own monologues, and as small groups the students will also write and perform their own plays.

#### STUDENT SENATE (1 credit, full year)

**GRADES 9-12**

Student Senate is a full year course. Eight representatives from each class will be elected for one year terms. A governor, lieutenant governor, secretary and treasurer will constitute the executive board and will be elected for one year terms from the entire student body. Class councils will be elected by their respective class. Each will have a President, Vice President, Secretary, Treasurer, and two Senators. In addition, students at large may be appointed by the class advisors. This class will provide its members with the opportunity to develop as leaders, to become skilled at parliamentary procedure, to develop organizational skills, to set short and long range goals, to carry out tasks to completion, to encourage student involvement and promote a positive school climate, to become involved in various governmental agencies within the community, and to help the local community. This course will remain in compliance with the Constitution, which states that **members of the executive board must be enrolled in the class for the entire year to retain their office.**

### ELECTIVES

The following courses count as elective credit only.

#### INTRODUCTION TO PUBLICATIONS (1 credit, full year)

**GRADES 9-11**

Prerequisite: B average in English Preferred

This is a class for students who want to learn basic journalistic principles. Topics covered will include interviewing sources, news writing, feature writing, sports writing, opinion and editorial writing, caption and headline writing, editing and press law. Other areas of focus may include design, desktop writing, ethics, advertising and photography. Students are highly encouraged to take this class before enrolling in the yearbook or newspaper class.

## LANGUAGE ARTS CONTINUED

### NEWSPAPER (1 credit, full year)

**GRADES 10-12**

Prerequisite: B average in Language Arts and Newspaper Instructor Approval; Intro to Publications **strongly** preferred. Students **must** apply to the newspaper advisor to be a member of the Norseman staff and **must also submit three teacher references**.

This is a year-long course for students who have a good foundation in writing, the ability to work hard and independently, and a commitment to excellence in journalism. Freshmen and sophomores taking this course will be encouraged to study journalism throughout high school.

Because staff positions will be assigned, students must enroll for an entire year (unless they receive permission from the instructor to enroll for only one semester). Basic journalism skills will be taught, including writing, computer design, standards and ethics, advertising, and photography.

The focus of the course will be the publication of *The Norseman*, the school newspaper. Because required activities, such as advertising sales and coverage of events outside the school day, are an integral part of the course, students must have access to a car and/or a willing driver.

### YEARBOOK (1 credit, full year)

**GRADES 10-12**

Prerequisite: B average in Language Arts and Yearbook Instructor Approval; Intro to Publications **strongly** preferred. Students **must** apply to the yearbook advisor to be a member of the SAGA staff and **must also submit three teacher references**.

This is a year-long course for students who have a good foundation in writing, the ability to work hard and independently, and a commitment to excellence in journalism. Freshmen and sophomores taking this course will be encouraged to study journalism throughout high school.

Because staff positions will be assigned, students must enroll for an entire year (unless they receive permission from the instructor to enroll for only one semester). Basic journalism skills will be taught, including writing, computer design, standards and ethics, advertising, and photography.

The focus of the course is the publication of the *SAGA*, the Grayling High School yearbook. Because required activities, such as advertising sales and coverage of events outside the school day, are an integral part of the course, students must have access to a car and/or a willing driver.

### FILM APPRECIATION (½ credit, one semester)

**GRADES 10-12**

Prerequisite: Successful completion of English 9

This course is for students who would like to gain knowledge and critical appreciation of film as an informed audience member and to amplify and intensify critical skills with regard to analyzing and evaluating films. Students will complete individual and personal evaluation of films. This class also focuses on the role and responsibility of the informed audience member with regard to film philosophy and theory including the major genres and styles of film art.

### POSITIVE PEER INVOLVEMENT (1 credit, full year, or 1/4 credit, seminar)

**GRADES 10-12**

Prerequisite: Enrollment by Instructor Approval

This class may or may not be offered as a brick or a block class. However, it may take place during seminar for 1/4 credit for the year.

Positive Peer Involvement is a class of selected students who demonstrate exceptional listening skills, a sense of empathy for others, and a desire to be positive role models in curricular as well as in co-curricular activities. The long term effects of P.P.I. will be to reduce conflicts within the student body through mediation, as well as to help improve individual decision making and problem-solving skills. Members in this class will maintain Wayne County R.E.S.A. Certification, promote an affirmative school atmosphere through modeling positive behavior, provide a confidential, non-judgmental environment in which students can express themselves and resolve conflict, provide community service, develop the proposed mentor and shadow programs, and assist in the development and implementation of a program to promote the use of healthy decision-making skills with regard to drugs, alcohol, tobacco, and abstinence.

## **MATHEMATICS**

**COMPUTER MATH**  
**APPLIED MATH 1**  
**APPLIED MATH 2**  
**ALGEBRA A**  
**ALGEBRA B**  
**GEOMETRY**  
**IND. STUDY GEOMETRY**

**ALGEBRA 2**  
**PROBLEM SOLVING WITH**  
**STATISTICS**  
**FST (FUNCTIONS, STATISTICS, AND**  
**TRIGONOMETRY)**  
**PRE-CALCULUS**  
**ADVANCED PLACEMENT CALCULUS**

**COMPUTER MATH** (1 credit, full year)  
Prerequisite: Instructor Approval

**GRADES 9-12**

Students learn basic mathematical skills in addition, subtraction, multiplication and division. The course reviews concepts of whole numbers, decimals, fractions, signed numbers and order of operations. Computers are used to enhance students' learning. Difficulty levels increase as concepts are mastered. Classroom time is used to reinforce concepts learned on the computer. Some consumer math is introduced.

**APPLIED MATH 1** (1 credit, full year)  
Prerequisite: None

**GRADES 9-12**

This course is primarily for ninth graders who are not yet ready for Algebra A. It provides a review of operations on whole numbers, decimals and fractions with connections to algebra, geometry, statistics, science, and technology. Polygons and their parts, areas of two-dimensional shapes, and volume of three-dimensional shapes are taught.

**APPLIED MATH 2** (1 credit, full year)  
Prerequisite: Applied Math I

**GRADES 10-12**

This companion course to Applied Math I explores topics in algebra, statistics and probability. Consumer, technological, and business applications are taught. Specific topics include: ratio and proportion, percent, data analysis, graphing, operations on integers, solving equations, and using samples to predict.

**ALGEBRA A** (1 credit, full year)  
Prerequisite: C or better in Applied Math I or II or Instructor Approval

**GRADES 9-12**

This class is for students who were successful in Applied Math I or II. Topics covered the first year would include variables, algebraic multiplication, algebraic subtraction, algebraic division, algebraic addition, linear sentences, slopes of lines, and factoring

**ALGEBRA B** (1 credit, full year)  
Prerequisite: Algebra A

**GRADE 9-12**

This class is for students who were marginally successful in Algebra A, and need more review before going on to Geometry. This class will include a review of Algebra A, and will cover topics including slopes, exponents, powers, quadratic equations, square roots, polynomials, factoring and functions.

**GEOMETRY** (1 credit, full year)  
Prerequisite: Algebra A or Algebra B  
May be taken simultaneously with Algebra II (instructor approval required)

**GRADES 9-12**

This class builds on the informal ideas that the student already has developed from previous courses in discussion of points, lines, and planes. However the course very quickly develops into a more formal study by using those informal ideas to logically develop a system of definitions, theorems and postulates for use in formal proofs. In addition, geometric transformations, measurement formulas (areas, surface areas, and volumes), three-dimensional figures, and the Pythagorean Theorem are presented in depth.

## **MATHEMATICS CONTINUED**

### **INDEPENDENT STUDY GEOMETRY**

**GRADES 9-12**

(1/2 credit, 2<sup>nd</sup> semester only in place of Geometry)

Prerequisite: By geometry instructor recommendation only

\*\*This class may not be offered every year.

This class is for the academically strong geometry student who can learn and study independently in a less structured environment. All material learned in regular geometry will be covered in addition to two other chapters (coordinate geometry and basic trigonometry).

### **ALGEBRA 2** (1 credit, full year)

**GRADES 10-12**

Prerequisite: C or better in Geometry

The course will cover linear and quadratic functions, variations and graphs, matrices, systems, powers, inverses and radicals, exponential and logarithmic functions, trigonometry, polynomials, quadratic relations, (parabolas, circles, ellipses, and hyperbolas) and sequences and series. This class will use the graphing calculator as a tool to enhance the concepts of mathematics. College bound students are encouraged to take this class.

### **PROBLEM SOLVING WITH STATISTICS** (1 credit, full year)

**GRADES 11-12**

Prerequisite: Algebra A or Algebra B

Problem Solving with Statistics will involve individual and small group problem solving geared toward real life situations and non-traditional problem solving. The problem solving strategies will include: draw a diagram, systematic lists, eliminate possibilities, matrix logic, look for a pattern, guess and check, sub-problems and numerous others. Divergent thinking and technical communication skills of writing and oral presentation will be enhanced. The statistics portion will include working with the mean, mode, and median and using a graphing calculator to find the line of best fit.

### **FST (FUNCTIONS, STATISTICS, AND TRIGONOMETRY)**

**GRADES 11-12**

(1 credit, full year)

Prerequisite: Geometry and Algebra II

**May be taken simultaneously with Pre-Calculus**

This course integrates functions, statistics, and trigonometry and applies the algebra and geometry that students have learned in previous years. The first semester includes statistics with statistical models, powers, exponentials, logarithms, and trigonometric functions; the second semester includes further work with trigonometry, work with polynomial and circular functions, probability, sequences, series, and combinations.

### **PRE-CALCULUS** (1 credit, full year)

**GRADES 11-12**

Prerequisite: FST or Instructor Approval

This course is designed to give students a thorough background in topics leading to the study of calculus. Topics covered include logic, analyzing functions, equations and inequalities, integers and polynomials, rational numbers and functions, trigonometry, polar coordinates, recursion and mathematical induction, and an introduction to the derivative.

### **ADVANCED PLACEMENT CALCULUS** (1 credit, full year)

**GRADE 12**

Pre-requisite: Pre-Calculus

This course is intended for students who have a thorough background in college preparatory mathematics. Topics covered in this course will include properties of functions, limits, the derivative, application of derivatives, anti-derivatives, the definite integral and applications of the integral. The goal of this course will be to prepare the student for the A.P. Examination (optional) in mathematics.

## SCIENCE

SCIENCE 1  
SCIENCE 2  
SCIENCE 3  
SCIENCE 4  
SCIENCE 5  
GENERAL SCIENCE  
PRINCIPLES OF TECHNOLOGY 1  
PRINCIPLES OF TECHNOLOGY 2  
BIOLOGY  
BOTANY

GENETICS  
ZOOLOGY  
CHEMISTRY 1  
CHEMISTRY 2  
PHYSICS  
ANATOMY AND PHYSIOLOGY  
ADVANCED PLACEMENT BIOLOGY  
ADVANCED PLACEMENT  
CHEMISTRY

Starting with the class of 2008, students must show competency in the three core science areas – life science, physical science, and earth science. This will require the class of 2009 and beyond to earn a minimum of 2.5 credits of science to qualify for graduation from the Crawford AuSable School District.

This means that students must take a minimum of the following:

- 1 year of Life Science
- 1 year of Physical Science
- 1 semester of Earth Science

### Life Science

Science 1 **and** Science 2

**or**

Biology

### Physical Science

Science 3 **and** Science 4

**or**

Chemistry **and** Physics

**or**

Chemistry **and** Science 4

**or**

Science 3 **and** Physics

### Earth Science

Science 5

**or**

Competency Test

Students are urged to take additional courses in Principles of Technology, Zoology, Botany, and Genetics to explore other areas of science.

Students interested in attending a 4-year college or university should consider following Plan 1 or Plan 2 “Suggested Courses of Study.”

### **Grayling High School Suggested Courses of Study**

	<u>Plan 1:</u>	<u>Plan 2:</u>	<u>Plan 3:</u>
9 <sup>th</sup> Grade:	Biology	Science 1 and 2	Science 1 and 2
10 <sup>th</sup> Grade:	Chemistry and Science 3 and 4 Science 5		Science 3 and 4
11 <sup>th</sup> Grade:	Physics	Biology and Science 5	Science 5 and Science Elective (optional)
12 <sup>th</sup> Grade:	AP Biology or Chemistry AP Chemistry or Human Anatomy		Science Elective (optional)

## **SCIENCE CONTINUED**

### **Year-Long Science:**

Science 1 and 2  
Science 3 and 4  
Biology  
Chemistry  
Physics  
AP Biology (Instructor's Approval)  
AP Chemistry (Instructor's Approval)  
Human Anatomy & Physiology (Instructor's Approval)  
Principles of Technology 1  
Principles of Technology 2

### **Semester Science**

Science 5  
Botany  
Genetics  
Zoology

### **SCIENCE 1** (½ credit, one semester)

**GRADES 9-10**

This course, in conjunction with Science 2, is designed to provide the student with a complete understanding of life science principles. Major units include cellular processes, heredity and plants.

### **SCIENCE 2** (½ credit, one semester)

**GRADES 9-10**

This course, in conjunction with Science 1, is designed to provide the student with a complete understanding of life science principles. Major units include animals, human body systems and ecology.

### **SCIENCE 3** (1/2 credit, one semester)

**GRADE 10-12**

This course will be added in the fall of 2005 and will replace the first semester of what is now "General Science". This course is designed to provide the student with a basic understanding of chemistry principles.

### **SCIENCE 4** (1/2 credit, one semester)

**GRADE 10-12**

This course will be added in the fall of 2005 and will replace the second semester of what is now "General Science". This course is designed to provide the student with a basic understanding of physics principles.

### **SCIENCE 5** (1/2 credit, one semester)

**GRADE 10-12**

This course will be added in the fall of 2005 or 2006. This course is designed to provide the student with a basic understanding of earth science principles.

### **GENERAL SCIENCE** (1 credit, full year)

**GRADES 10-12**

General Science is divided into four major units. Each unit explores a different branch of science: chemistry, physics, earth science and biology. The history of science and technology, scientific facts and figures, the way science and technology affects our lives, related career opportunities and the scientific process will be covered. This course is designed to integrate exposure to scientific information and create a foundation for future studies in this area.

### **PRINCIPLES OF TECHNOLOGY 1** (1 credit, full year)

**GRADES 10-12**

Prerequisite: Successful completion of Algebra A or Instructor Approval

This year-long "hands-on" lab course will cover the scientific concepts of force, work, rate, resistance, and an introduction to electronics (components, bread boarding, circuit construction and soldering). Each of these concepts will be explored by investigating its application in mechanical, fluid (hydraulic & pneumatic), electrical, and thermal systems. The course concentrates on problem-solving math labs, and "hands-on" hardware labs. If a student maintains a B average, he or she can receive college credit at Kirtland Community College for Basic Electricity.

## **SCIENCE CONTINUED**

### **PRINCIPLES OF TECHNOLOGY 2** (1 credit, full year)

**GRADES 11-12**

Prerequisite: Successful completion of Technology I or Instructor Approval

Students will explore the scientific concepts of energy, power, force, transformers, and energy converters in mechanical, fluid, electrical, and thermal systems. Concepts in more advanced topics of electronics will be presented and explored. Students will computer-interface constructed electronic circuits and will be exposed to BASIC programming. Students will be required to design and construct an electronics project for M.I.T.E.S. competition the last part of the year.

### **BIOLOGY** (1 credit, full year)

**GRADES 9-12**

Prerequisite: 10th grade or 8th Grade Science Instructor Approval

This course will emphasize the following topics; scientific method, cells, genetics, evolution, diversity of life, plants, animals, and ecology. The students shall be responsible for labs, drawing and labeling various biological processes, organ systems and structures of organisms.

### **BOTANY** (1/2 credit, one semester)

**GRADES 10-12**

Prerequisite: Biology or Science 1 and 2, and General Science

Botany is the study of plants. Students in this course will study plants in a phylogenetic approach, concentrating the plant morphology (structure), physiology, developmental stages, and ecosystem interactions of the major groups of plants. Bryophytes, Sphenophytes, Lycophytes, Pterophytes, Gnetophytes, Coniferophytes, and Anthophytes will be studied. Laboratory activities will include tissue identification, Michigan plant species identification (including edible plants), and forest mapping.

### **GENETICS** (1/2 credit, one semester)

**GRADES 10-12**

Prerequisite: Biology or Environmental Science and General Science

Genetics is the branch of biology that studies heredity. In this course, students will study DNA structure and function, Mendel's Law of Inheritance, sex-linked traits, polygenetic inheritance, the human genome, and DNA technology. Various laboratory activities will be offered throughout the course, including the breeding of fruit flies to demonstrate various principles and laws.

### **ZOOLOGY** (1/2 credit, one semester)

**GRADES 10-12**

Prerequisite: Biology or Environmental Science and General Science

Zoology is the study of animals. In this course, students will use a phylogenic approach in studying the anatomy and physiology, developmental stages, symmetry, and body organization of the major groups of animals. Sponges, Flatworms, Cnidarians, Nematodes, Mollusks, Annelids, Arthropods, Enchinoderms, and Chordates will be studied. Various laboratory exercises will also be required for the course, including the dissection of various animal specimens.

### **CHEMISTRY 1** (1 credit, full year)

**GRADES 10-12**

Prerequisite: Successful completion of Algebra A or B

Introduction to the basics of chemistry including topics such as atom structure, chemical equations, nomenclature and chemical bonding. Course includes laboratory experiments and problem solving.

### **CHEMISTRY 2** (1 credit, full year)

**GRADES 10-12**

Prerequisite: Successful completion of Chemistry I

This course is a continuation of Chemistry I. Topics include: acids, bases, salts, reaction rates, solutions, electrochemistry, nuclear chemistry, and biochemistry. Course includes laboratory experiments and problem solving.

### **PHYSICS** (1 credit, full year)

**GRADE 12**

Prerequisite: Chemistry I, Algebra II and Geometry (one of which may be taken the same year as Physics) or Instructor Approval

Topics to be covered will be wave characteristics, sound waves, light, refraction, interference, diffraction, polarization, electro statics, direct-current circuits, series and parallel circuits, forces,

velocity, momentum and acceleration. Problem solving and labs will be the primary method of learning. Any student with a B average or better in math courses should be successful in Physics.

## **SCIENCE CONTINUED**

### **ANATOMY AND PHYSIOLOGY** (1 credit, full year)

**GRADES 11-12**

Prerequisite: B or better in Biology or Instructor Approval

An in-depth study of the structure and function of the human body. Emphasis is placed on the advanced study of human systems; their function both normal and abnormal will be explored. Animal dissection required.

### **ADVANCED PLACEMENT BIOLOGY** (1 credit, full year)

**GRADES 11-12**

Prerequisite: Biology and Instructor Approval

A.P. Biology will consist of a fast paced class geared to the college student who wishes to earn college credit by taking the A.P. Biology test in May. The students will be expected to study a minimum of two (2) hours per one (1) in class. There are a minimum of 12 required labs to be scheduled on some Saturdays. This class is offered on alternating years with A.P. Chemistry.

### **ADVANCED PLACEMENT CHEMISTRY** (1 credit, full year)

**GRADES 11-12**

Prerequisites: Chemistry I and Instructor Approval **or**  
Chemistry I & Chemistry II and Instructor Approval

A.P. Chemistry will consist of a fast paced class geared to the college bound student who wishes to earn college credit by taking the A.P. Chemistry test in May. The students will be expected to study as if it is a college class with a minimum of two (2) hours of study per one (1) in class. This class is offered on alternating years with A.P. Biology.

**SOCIAL STUDIES**

**SOCIAL STUDIES 1  
SOCIAL STUDIES 2  
SOCIAL STUDIES 3  
TENTH GRADE SOCIAL STUDIES  
CRIMINAL JUSTICE  
CURRENT EVENTS  
PSYCHOLOGY**

**SOCIOLOGY  
WORLD HISTORY  
PSYCHOLOGY 2  
ADVANCED PLACEMENT  
U.S. HISTORY  
ADVANCED PLACEMENT  
EUROPEAN HISTORY**



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**TENTH GRADE SOCIAL STUDIES** (1 credit, full year) Required  
Class of 2005 only

**GRADE 10**

Tenth Grade Social Studies will be a general survey of important events that have shaped the history of the United States from Reconstruction up to the present. This course will cover the following: rebuilding the nation after the Civil War, the rise of industrialism, the arrival of reform, becoming a world power, the "golden twenties", the New Deal, World War II, the Cold War, the 1950's, the 1960's, the Vietnam War and troubles at home and up to present day. The purpose, structure, and function of the three branches of our national government will be studied in detail. Class goals and student work are designed to be preparation for the eleventh grade MEAP test-high school version.

## **SOCIAL STUDIES CONTINUED**

### **CRIMINAL JUSTICE** (1/2 credit, one semester)

**GRADE 10-12**

The purpose of this high school social studies course is to introduce the students to the three main components of the criminal justice system of the United States. The students will learn about why we need such a system, and how the justice system has grown throughout history. The students will also look at the issues of the United States, and how our society's view of deviant behavior changes as our society changes. This course will also place a major emphasis on the major documents (such as the Declaration of Independence, the Constitution, and the Bill of Rights) of the United States, and how these documents have an impact on the way we treat criminal offenders and the rest of society.

### **CURRENT EVENTS** (1/2 credit, one semester)

**GRADE 10-12**

This class is designed to make students aware of events taking place in the United States and around the world. Students will follow daily news, in general, as well as focus on a selected Current Events theme, which they will study in greater depth and detail. This course can be taken a total of two (2) times, as the nature of the material will change.

### **PSYCHOLOGY** (1/2 credit, one semester)

**GRADES 11-12**

This class is designed to give students an introduction to the terminology and concepts used in psychology. It will explore what people do, how they think, and why they act as they do. The class will give insight to the behavior patterns of the normal and abnormal people within our society.

### **SOCIOLOGY** (1/2 credit, one semester)

**GRADES 11-12**

This class is designed to show the interaction of individuals and groups, with that of society as a whole. It will deal with basic concepts, social institutions and sociological processes. Sociology is the study of society. In order to understand society one must be able to see the world through the eyes of others. By using this sociological imagination, students can understand the world around them.

### **WORLD HISTORY** (1/2 credit, one semester)

**GRADES 11-12**

This class will study past world events through a general survey of important events that have shaped history from the prehistoric times to the present. This course will include the beginnings of civilization, the development of the East and West, the Middle Ages, the emergence of modern Europe, the Enlightenment, revolution and reaction, the age of unification, and nationalism up to 1900 A.D.

### **PSYCHOLOGY 2** (1/2 credit, one semester)

**GRADE 11-12**

Prerequisite: Psychology and/or Instructor Approval

This one semester class is designed as a systematic study of human behavior. Students are exposed to scientific methodologies, psychological facts and phenomena. An emphasis is placed on theorists and theories. This class will consist of selected outside readings, experiments, case studies, and a research paper along with accompanying text.

### **ADVANCED PLACEMENT U.S. HISTORY** (1 credit, full year)

**GRADES 11-12**

Prerequisite: B or better cumulative G.P.A. and Instructor Recommendation

A.P. U.S. History is a college-level class that uses a national curriculum to study our nation's history from the Pre-Columbian encounter through present. Students will have the opportunity to study for the A.P. examination, and to earn college credit for a nominal fee. This is a full year course, and is extremely rigorous. This class is offered on alternating years with A.P. European History.

### **ADVANCED PLACEMENT EUROPEAN HISTORY** (1 credit, full year)

**GRADE 11-12**

Prerequisite: B or better cumulative G.P.A. or Instructor Recommendation

A.P. European history is a full year introductory college course in European history from 1450 to the present time. This course has the goals of developing: a) an understanding of the principle themes in modern European history, b) an ability to analyze historical evidence, and c) an ability to analyze and express historical understanding in writing. The themes that will be explored include intellectual and cultural history, political and diplomatic history, and social and economic history. The student may

take the Advanced Placement test for college credit. This class is offered on alternating years with A.P. U.S. History.

## **WORLD LANGUAGE**

**SPANISH 1  
SPANISH 2  
SPANISH 3**

**SPANISH 4  
SPANISH 5 INDEPENDENT STUDY**

**SPANISH 1** (1 credit, full year)

**GRADES 9-12**

Prerequisite: B or better in English or Instructor Approval

This year long course is an introduction to the Spanish language and Hispanic cultures. The focus is on the development of basic communication skills through participatory exercises in listening, speaking, reading, and writing. Useful expressions, basic vocabulary, and customs of Spanish-speaking countries are taught and active student involvement is required.

**SPANISH 2** (1 credit, full year)

**GRADES 9-12**

Prerequisite: B or better in Spanish I or Instructor Approval

The course is a continuation of first-year Spanish for students who want to further develop their abilities. The focus continues to be on the development of communication skills, vocabulary, and knowledge of Hispanic cultures, but in greater depth and with higher expectations for student performance.

**SPANISH 3** (1 credit, full year)

**GRADES 10-12**

Prerequisite: B or better in Spanish II or Instructor Approval

The course is for serious students of Spanish who may want to further their knowledge of the language after graduation or show competency at the college level. If the class is small, this may be taught jointly with Spanish 4. While the focus continues to be on the four interrelated communication skills and cultural studies, greater emphasis is placed on spontaneous listening and speaking, structured writing and reading.

**SPANISH 4** (1 credit, full year)

**GRADES 11- 12**

Prerequisite: B or better in Spanish III or Instructor Approval

This is a course for serious students of Spanish. If the class is small, it will be offered jointly with Spanish 3. The focus continues to be on advanced communication skills and cultural studies with a stronger emphasis on grammar and structure, in order to develop communication abilities and prepare students for college study or competency examinations.

**SPANISH 5** (1 credit, full year)

**GRADE 12**

Prerequisite: B or better in Spanish IV or Instructor Approval

This is a course for seniors who have completed Spanish IV and want to further and deepen their knowledge of the language through independent work. Depending upon student interest, there may be an option to study for one of the two Spanish Advanced Placement tests.

## **HEALTH/PHYSICAL EDUCATION\***

**CONTEMPORARY HEALTH**

**EXERCISE AND NUTRITION  
FITNESS FOR LIFE**

**WELLNESS & ESSENTIAL**

**LIFE SKILLS  
STRENGTH AND CONDITIONING  
ADVANCED FITNESS FOR LIFE**

\*THE COURSE "CONTEMPORARY HEALTH" AND ONE SEMESTER OF PHYSICAL EDUCATION ARE REQUIRED FOR GRADUATION. All physical education courses may be taken

more than once with instructor approval. However, no more than one physical activity course should be taken per semester.

## **HEALTH/PHYSICAL EDUCATION CONTINUED**

### **CONTEMPORARY HEALTH** (1/2 credit, one semester) Required

**GRADES 10-12**

Required course introduces a holistic approach to the six areas of health through lecture, testing, group work, life skills simulations, multi-media exploration, student research and discovery. Topics addressed include healthy choices and positive decision-making, self/social esteem, level one of the "Safer Choices" model for sex education, family dynamics with parenting simulation, the aging process, genetics, tolerance, healthy relationships, societal influences of violence and avoidance of unhealthy relationships.

### **WELLNESS AND ESSENTIAL LIFE SKILLS** (1/2 credit, one semester)

**GRADES 11-12**

This elective course reinforces a holistic approach to the six areas of health through lecture, testing, group work, life skills simulations, multi-media exploration, student research and discovery. Topics addressed include exercise and nutrition, tolerance education, conflict resolution, substance use and abuse, suicide prevention, sexually transmitted infections, First Aid, CPR, body systems, disease, health services, and career opportunities.

### **EXERCISE AND NUTRITION** (1/2 credit, one semester)

**GRADES 9-12**

This class will show the students how daily exercise will help to improve health and foster fitness. Activity focus will be placed upon exercise that will challenge target heart rate such as running, rope skipping, dancing, weight training and Tae-Bo et al. The class will examine diet, nutrition, body shaping, measurements, developing individual goals and programs for weight management. Health-related topics will be explored throughout instruction. Resources may include, but are not limited to "Fit or Fat" by Covert Bailey, Internet web sites, Encyclopedia of Modern Bodybuilding" by Arnold Schwarzenegger, etc.

### **STRENGTH AND CONDITIONING** (1/2 credit, one semester)

**GRADES 9-12**

This course is designed to offer students opportunities and proper techniques in strength training, aerobics, flexibility and agility through lecture, lifting, agility drills, activities, speed training, and conditioning. Students will develop fitness, speed and quickness, increased musculature, improved body control, self and social esteem, and a greater understanding of the importance of the benefits of attitude, rest, exercise, nutrition, hygiene, and safety. Students may develop individual programs to address body composition and body shaping.

### **FITNESS FOR LIFE** (1/2 credit, one semester)

**ONLY GRADES 9-10**

This course is designed to develop physical fitness, body control, fundamental motor skills, self and social esteem, hygiene, safety and cognitive concepts as they relate to health and fitness. Students will gain an increased understanding of the benefits of teamwork, aerobic and anaerobic exercise, rest, and nutrition through lecture, testing, demonstration, and participation in a variety of activities. Opportunities may include, but are not limited to: basketball, dance, floor hockey, football, soccer, softball, tennis, track and field, volleyball, and whiffle ball. The National Physical Fitness test may be implemented.

### **ADVANCED FITNESS FOR LIFE** (1/2 credit, one semester)

**ONLY GRADES 11-12**

This course is designed for students interested in expanding their skill and knowledge of physical education emphasizing life-long fitness activities. Students will develop physical fitness, body control, fundamental motor skills, self and social esteem, leadership skills, hygiene, safety, teamwork, and cognitive concepts as they relate to health and fitness. Students will be introduced to the opportunities presented to referees and encouraged to consider becoming M.H.S.A.A. certified. Students will gain an increased understanding of the benefits of rest, exercise and nutrition through the use of lectures, tests, and activities that may include, but are not limited to: basketball, bowling, dance, floor hockey, golf, hiking, soccer, softball, strength training, tennis, and volleyball.

## **INDUSTRIAL EDUCATION**

**CONSTRUCTION TRADES 2  
CONSTRUCTION TRADES 3**

**WOOD SHOP 1  
WOOD SHOP 2**

**INTRODUCTION TO CONSTRUCTION TRADES** (1 credit, full year) **GRADES 9-12**

This program will introduce students to the construction industry. Topics covered will include basic safety, introduction to construction math, introduction to hand tools, introduction to power tools, and basic blue print reading.

**CONSTRUCTION TRADES 2** (1 credit, full year) **GRADES 10-12**

Prerequisite: Introduction to Construction Trades, or instructor approval

This program will cover most phases of residential construction including rough framing, roofing, exterior finish, wiring, plumbing, drywall hanging and finishing, interior trim work, and cabinet installation. Construction modules will provide students an opportunity to gain hands-on experience in a controlled environment.

**CONSTRUCTION TRADES 3** (1 credit, full year) **GRADES 11-12**

Prerequisite: Construction Trades 1 & 2, or instructor approval

Students will have an opportunity to expand what they have learned in Construction Trades 1 and 2 by choosing a specific field to study, such as rough framing, finish carpentry, dry-walling, electrical, roofing, and siding. This class will be offered in the 2005-06 school year.

**CONSTRUCTION TRADES 4** (1 credit, full year) **GRADES 11-12**

Prerequisite: Construction Trades 1, 2 & 3

This will be a block class. Students will complete various projects (sheds, garages, decks) mostly on site, and off-site possibly if needed. This course may be offered during the 2004-2005 school year as an Independent Study with teacher recommendation only.

**WOOD TECHNOLOGY 1** (½ credit, one semester) **GRADES 9-12**

This program will introduce students to the wood lab and the woodworking industry. Students will learn to operate hand and power tools, such as a router, jointer, surface planer, electric sanders, and a drill press. Students will complete several required projects.

**WOOD TECHNOLOGY 2** (½ credit, one semester) **GRADES 9-12**

Prerequisite: Wood Shop 1 or Instructor Approval

The course is designed so that students should be able to take the knowledge gained in Wood Technology 1 and apply it through the means of designing, planning, and constructing projects of their own choice. **Students must pay for materials used in this course.**

## **TECHNICAL EDUCATION**

**BEGINNING DRAFTING  
TECHNICAL DRAFTING**

**ARCHITECTURAL DRAFTING  
AUTOCAD**

**BEGINNING DRAFTING** (1 credit, full year) **GRADES 9-12**

This course is valuable for all students regardless of their career choice. Students will be involved with both orthographic and pictorial drawings which will improve their depth perceptions and space visualizations for anything from medicine to music to any of the construction trades. A highly valuable course for college prep students. They will expand into surface development, auxiliary views and sections.

## **TECHNICAL EDUCATION CONTINUED**

### **TECHNICAL DRAFTING** (1 credit, full year)

**GRADES 10-12**

Prerequisite: Beginning Drafting

A continuation of the Beginning Drafting course with the emphasis on the machine trades. Using 3D parametric modeling, students will produce working drawings, learn dimensioning techniques, do exploded, rendered, and revolved drawings. All drawings will be done on computers, using AutoCAD software, and plotted using industrial methods and techniques.

### **ARCHITECTURAL DRAFTING** (1 credit, full year)

**GRADES 10-12**

Prerequisite: Beginning Drafting

This course is all about the home and residential industry. Students will be introduced to floor plans, elevations, perspectives, codes, and the dimensioning and rendering of various drawings. All drawings will be done on computers, equipped with AutoCAD software, and plotted using industrial methods and techniques. First semester will be all required drawings with the 2nd semester being a student design problem. Creativity is a plus. Ambition is a must.

### **AUTOCAD** (1 credit, full year)

**GRADES 12**

Prerequisite: Instructor Approval

This course is a senior-level only class. All drawings are done on a computer and plotted using the same equipment and techniques industry uses. This course is designed for the advanced student who has a high level of interest in the drafting area. With instructor's approval, an independent study curriculum will be set with a minimum of two semester projects. It is recommended that you have Architectural Drafting and Technical Drafting. At the completion of the course the students may qualify for five (5) college credits in the drafting curriculum at Kirtland Community College.

## **FINE ARTS AND MUSIC**

**INTRODUCTION TO ART**  
**2-D DESIGN**  
**3-D DESIGN**  
**PHOTOGRAPHY**  
**CERAMICS**  
**DRAWING**  
**PAINTING**  
**ADVANCED CERAMICS**  
**COMMERCIAL DESIGN**

**INDEPENDENT ART**  
**ADVANCED PLACEMENT ART**  
**CONCERT CHOIR**  
**CHAMBER SINGERS**  
**BAND**  
**MUSIC THEORY**  
**INDEPENDENT STUDY**  
**IN MUSIC**

### **INTRODUCTION TO ART** (1 credit, full year)

**GRADES 9-12**

This course is designed to acquaint the beginning art student with various periods, mediums and techniques in art. Students will explore the elements and principles of art, through projects, discussions, and various assignments.

### **2-D DESIGN** (1/2 credit, one semester)

**GRADES 10-12**

Prerequisite: Introduction to Art

This class will focus on the elements and principles of design through two-dimensional formats. Students will explore components of composition of two-dimensional objects. Students will learn how to critique other works of art and evaluate their own art works.

### **3-D DESIGN** (1/2 credit, one semester)

**GRADES 11-12**

Prerequisite: Introduction to Art, 2-D Design

This course will focus on the elements and principles of design through three-dimensional formats. Students will explore components of composition of three-dimensional objects. Students will use sculpture and found object assemblage. Students will learn how to critique other works of art and evaluate their own art works.

## **FINE ARTS AND MUSIC CONTINUED**

### **PHOTOGRAPHY** (1/2 credit, one semester)

**GRADES 11-12**

Prerequisite: Introduction to Art and Instructor Approval, Drawing or 2-D Design

This course is to acquaint students with the basics of photography, including the use of a manual camera, photo printing and photo-composition. Students will learn how to operate a manual camera, including loading the camera, setting up the composition and the proper use of "F-stops". Students will also be responsible for developing their own negatives and pictures. Students will need to supply their own manual 35 mm camera. **The purchasing of additional supplies may be required.**

### **CERAMICS** (1/2 credit, one semester)

**GRADES 10-12**

Prerequisite: Introduction to Art or Instructor Approval

This class will give the beginning ceramic student the opportunity to explore the world of clay. Students will be taught to build functional and non-functional works of art using pinch, coil, slab, and poured mold methods. Students will also explore the basic uses of stains, under glazes and glazes.

### **DRAWING** (1/2 credit, one semester)

**GRADES 10-12**

Prerequisite: Introduction to Art or Instructor Approval

This course will allow students to explore various drawing techniques. Students will be taught the correct use of drawing materials such as: pencil, charcoal, pastel, pen and ink, and colored pencil. **Students may be required to supply some of their own materials.**

### **PAINTING** (1/2 credit, one semester)

Prerequisite: Introduction to Art, Drawing, or Instructor Approval

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This course will allow students to explore various techniques in the area of painting. Students will be taught the correct use of acrylic, oil, and watercolor paints. **Students may be required to supply some of their own materials.**

### **ADVANCED CERAMICS** (1/2 credit, one semester)

**GRADES 11-12**

Prerequisite: Ceramics or Instructor Approval

This class is offered only to advanced ceramic students. Students will be taught how to use the potter's wheel and the various methods involved. Students will also explore techniques in pinch, coil, slab, and poured mold methods of ceramics. Students will also use advanced forms of glazing.

### **COMMERCIAL DESIGN** (1/2 credit, one semester)

**GRADES 11-12**

Prerequisite: Introduction to Art, Drawing, plus Instructor Approval

This course is designed for the serious art student and one who is going to work well with a group. This course will focus on how art is used in the "real world." The students will focus on a variety of projects that will involve graphic design, scenic design and painting, community and business projects, mural designs, and school-related projects. Course assignments may involve time beyond the school day.

### **INDEPENDENT ART** (1/2 credit, one semester)

**GRADES 11-12**

Prerequisite: All available art classes **and** Instructor Approval

This class is designed for the **serious art student**. Students are required to come up with their own course outline, and may concentrate on two-dimensional and three-dimensional art works. This course will explore careers in art, portfolio review, art history, and philosophies in art. This course may involve time beyond the normal school day. **Students are encouraged to purchase their own art supplies.**

## FINE ARTS AND MUSIC CONTINUED

### ADVANCED PLACEMENT ART 1 credit, full year)

GRADES 11-12

Prerequisite: All available art classes and Instructor Approval

This class is offered at Kirtland Community College, for the serious art student who will be attending an art school. This class is a very demanding course, focusing on art history, techniques, and a portfolio. In order to receive AP credit, a portfolio must be completed and sent to a jury of panelists for evaluation. Students must have instructor approval to take this class. **Students will be required to find their own transportation to and from Kirtland Community College, and will most likely be required to purchase their own materials.**

### CONCERT CHOIR (1/2 credit, one semester or 1 credit, full year)

GRADES 9-12

The Grayling High School Concert Choir is a mixed vocal ensemble intended to be a continuation of the middle school vocal program, or as an introduction to choral singing at the high school level. The class curriculum consists of development of the singing voice, sight singing, ear training, and music literacy, which will culminate in required public performances. Concert Choir is open to any high school student interested in singing; no audition is necessary. All Concert Choir members are expected to maintain the high musical standards of the Grayling High School Choral Program by demonstrating consistency in participation, positive attitude, personal musical growth, and teamwork. **Required performances are scheduled throughout the school year. Attendance at all rehearsals and performances is mandatory as they are part of the class grade**

### CHAMBER SINGERS (1/2 credit, one semester or 1 credit, full year)

GRADES 9-12

Prerequisite: Previous choral experience and entrance audition

The Grayling High School Chamber Singers is a select mixed vocal ensemble that provides advanced musical experiences for the experienced choral singer. Students are selected on the basis of an entrance audition where they demonstrate their musical ability and aptitude. All Chamber Choir members are expected to maintain the high musical standards of the Grayling High School Choral Program by demonstrating consistency in participation, positive attitude, personal musical growth, and teamwork. **Required performances are scheduled throughout the school year. Attendance at all rehearsals and performances is mandatory as they are part of the class grade**

### BAND (1 credit, full year)

GRADES 9-12

The Grayling High School Band offers continuous growth of the instructional music student. The long-range goals are to develop musically sensitive students and to develop a life-long opportunity to perform, read, and understand music. Individual student development on the musical instrument, as well as full band concepts and music theory are covered in this course. Home practice is expected if the student is to develop their musical skills. The Grayling High School Band consists of many groups of musicians: Grayling Viking Marching Band (primarily the first nine weeks of school), and Grayling High School Concert Band. Students are also presented the opportunities to participate in the following band activities: solo and ensemble activities, High School Jazz Band (which meets from 7:00 to 7:55 a.m., Tuesdays, Wednesdays, and Thursdays during the school year), Pep Band, and lessons. **Required performances are scheduled throughout the school year. Attendance at all rehearsals and performances is mandatory as this is a part of the class grade.**

### MUSIC THEORY (1 credit, full year -

GRADES 9-12

mid year entry only with instructor approval for 1/2 credit)

Writing music will be taught in this course. Basic entry level concepts of music and composition will be covered. Students will then progress into their own original compositions in handwritten or computer format. Compositions will be written so that they can be performed. This course is designed for students that intend to explore music further or that would like to extend their previous music theory courses.

## **FINE ARTS AND MUSIC CONTINUED**

### **INDEPENDENT STUDY IN MUSIC** (1/2 credit, one semester)

**GRADES 9-12**

Prerequisite: Music Theory and/or Instructor Approval

This course is designed to follow Music Theory, or to replace Music Theory. It will provide experience in music theory, composition, history, and music listening. This course will prepare students for the rigors of course work required for a post-secondary degree in music or continued study in music. Students should have instrumental music or choral music concurrently with this course.

## **BUSINESS TECHNOLOGY**

**MANAGEMENT SUPPORT 1  
MANAGEMENT SUPPORT 2  
MANAGEMENT SUPPORT 3**

**INTRODUCTION TO  
ACCOUNTING  
BUSINESS LAW**

**ACCOUNTING**

**ADVANCED**

The entire Management Support curriculum will integrate the 72 foundation and common business skills, such as problem solving, listening skills, note taking, following directions, telephone skills, and applied math and communications.

### **MANAGEMENT SUPPORT 1** (1 credit, full year)

**GRADES 9-12**

First semester: Students will begin the year with checkbook simulations, computer literacy, keyboarding, and word processing skills.

Second semester: Students will begin with word processing skills which include a career unit and then progress to spreadsheets, database applications, and Power Point.

This class will meet the computer requirement.

### **MANAGEMENT SUPPORT 2** (1 credit, full year)

**GRADES 10-12**

Prerequisite: Management Support I

Students will move on to an advanced level of word processing, database, and spreadsheet skills after Core I and II. Also included are electronic calculators and transcription skills. Career skills will be integrated with a strong emphasis on work ethics.

### **MANAGEMENT SUPPORT 3** (1 credit, full year)

**GRADES 11-12**

Prerequisite: Management Support II

On an advanced level, students will focus on communication skills, administrative support responsibilities, document processing, business mathematics, and electronic business equipment. Individual office simulations will be performed in the legal and medical field.

### **INTRODUCTION TO ACCOUNTING** (1 credit, full year)

**GRADES 9-12**

The goals of accounting are to help give the student economic understanding, general education and vocational education as well as giving the student skills for entry level employment in their chosen field. The first semester of accounting covers an accounting system beginning with the opening entry through journalizing transactions and posting ledgers. The second semester covers the work sheet, financial statements and adjusting and closing entries. Included in the second semester is a business simulation set to provide a review of the units and principles learned. For most students the business simulation with source documents is like working in an office. Students entering the class should have at least average ability in math and reading.

### **BUSINESS LAW** (1/2 credit, one semester)

**GRADE 9-12**

Some of the units the class will include are dealing with ethics and the law, criminal law, torts, contracts (their elements, consideration, legality, and discharge), wills and intestacy, and starting a

business. The class will focus on class discussion of relevant cases, legal procedures, and legal terminology, application of critical thinking skills, and independent and teamwork projects.

### **BUSINESS TECHNOLOGY CONTINUED**

#### **ADVANCED ACCOUNTING** (1 credit, full year)

**GRADES 10-12**

Prerequisite: Introduction to Accounting

This course is for students who have successfully completed Introduction to Accounting. The course is designed for students who want an accounting position upon graduation from high school or want to go to college and major in accounting or some phase of business. The material in the course is designed to help students broaden and improve their knowledge, understanding, and application of accounting competencies. The course emphasizes using a computerized approach to solving advanced accounting applications and a hands-on approach to learning how automated accounting systems and spreadsheets function.

### **COMPUTER TECHNOLOGY**

#### **COMPUTERS 1**

#### **COMPUTERS 2**

#### **COMPUTERS 1** (1/2 credit, one semester)

**GRADES 9-12**

An introductory course covering keyboard applications using IBM compatible computers. Emphasis will include areas of word processing, database, spreadsheets, and multimedia. Computer programs covered include Microsoft Office 97; Word, Excel, Access, and Power Point.

#### **COMPUTERS 2** (1/2 credit, one semester)

**GRADES 9-12**

Prerequisite: Computers I with B or above grade.

Students will expand their use of word processing, databases, spreadsheet and graphic software programs. Advanced technology which includes work with the digital camera, scanner, photo shop, desktop publishing, web pages, and multi-media are applied through integrated projects.

### **SPECIAL EDUCATION SUPPORT**

The following courses are individually designed for students to meet the requirements of Individual Educational Plan (IEP) goals and objectives. Students are scheduled into these classes through the IEP process and granted departmental or elective credit as appropriate. Students may also participate in school service, work experience program, or COOR vocational classes at Kirtland Community College as appropriate.

#### **RESOURCE PROGRAM**

English  
Social Studies  
Transition Skills

Health  
Speech

Math  
Study Support

Transition skills is a new course this year that will focus on organization, cooperation, academic support, social skills, employability skills, and work ethics.

#### **C. I. PROGRAM**

Core academics is an integrated curriculum involving English, Math, Science, and Social Studies that allows for individual instruction.

Community-Based Instruction English

Job Exploration

Life Skills  
Science

Mathematics

Social Studies

# INFORMATION GUIDE

## COLLEGE PREPARATORY RECOMMENDATIONS

The Grayling High School Administration recommends to those students aspiring to seek college admission the following criteria:

1. Pursue the most fulfilling academic program possible in accordance with your potential. This will allow a more complete choice in the future selection of an appropriate college and career.

2. **ENGLISH**

We recommend a minimum of one credit each year from the following:

<b>English 9</b>	<b>American Novels</b>
<b>English 10</b>	<b>Persuasive and Research Writing</b>
<b>American Literature</b>	<b>Advanced Placement Composition</b>
<b>World Literature</b>	<b>And Literature</b>
<b>Writing From Reason</b>	

3. **MATH**

Minimum of 3 credits from the following courses:

<b>Algebra A</b>	<b>FST</b>
<b>Geometry</b>	<b>Pre-Calculus</b>
<b>Algebra 2</b>	<b>Advanced Placement Calculus</b>

4. **SCIENCE**

Minimum of 3 credits from the following courses:

<b>Biology 1</b>	<b>Genetics</b>
<b>Chemistry 1</b>	<b>Botany</b>
<b>Chemistry 2</b>	<b>Anatomy and Physiology</b>
<b>Physics</b>	<b>Advanced Placement Biology</b>
<b>Zoology</b>	<b>Advanced Placement Chemistry</b>

5. **SOCIAL STUDIES**

Minimum of 3 credits from the following courses:

<b>Social Studies 1</b>	<b>State and Local Government</b>
<b>Social Studies 2</b>	<b>National Government</b>
<b>Social Studies 3</b>	<b>Psychology 2</b>
<b>Tenth Grade Social Studies</b>	<b>Advanced Placement U.S. History</b>
<b>World History</b>	<b>Advanced Placement European</b>
<b>Psychology</b>	<b>History</b>
<b>Sociology</b>	<b>American Conflicts</b>
<b>Current Events</b>	<b>Criminal Justice</b>

6. **WORLD LANGUAGE**

Minimum of 2 credits of the same language.

7. **OTHER RECOMMENDATIONS**

Computers 1, Management Support 1 or competency

8. The specific recommendation a student will receive toward gaining admission to a college will be determined by evaluating the student's achievement and potential for learning in relation to the standards of the particular college and curriculum being pursued.

## **STUDENT ATHLETES**

### **Making Sure You Are Eligible to Participate in College Sports**

The NCAA Clearinghouse determines the eligibility of each athlete for Division I & II colleges. You need to know which core courses have been accepted by the NCAA from Grayling High School's curriculum for meeting NCAA requirements. The approved courses are listed below, according to curricular categories.

#### **English**

American Literature  
 American Novels  
 Appreciating Literature  
 AP Composition & Literature  
 Debate  
 Drama  
 English 9  
 English 10  
 Forensics  
 Freshman Composition & Literature  
 Oral Communications  
 Persuasive and Research Writing  
 Senior Composition & Literature  
 Short Fiction  
 World Literature  
 Writing From Reason  
 Writing With Authority  
 Writing Workshop

#### **Natural/Physical Science**

Anatomy  
 Biology (lab)  
 AP Biology  
 AP Chemistry  
 Botany  
 Chemistry 1 (lab)  
 Chemistry 2 (lab)  
 Environmental Science  
 General Science  
 Genetics  
 Physics  
 Physiology  
 Principles of Technology 1  
 Principles of Technology 2  
 Zoology

#### **Mathematics**

Algebra A  
 Algebra 2  
 Geometry  
 A.P. Math  
 Pre-Calculus  
 Statistics with Problem Solving  
 FST (Functions, Statistics & Trigonometry)

#### **Social Science**

Social Studies 1  
 Social Studies 2  
 Social Studies 3  
 American Conflicts  
 Psychology  
 Psychology 2  
 State & Local Government  
 National Government  
 World History  
 A.P. European History  
 A.P. Psychology  
 A.P. U.S. History

Sociology

#### **Additional Core Courses**

Spanish 1  
 Spanish 2  
 Spanish 3  
 Spanish 4  
 Spanish 5

To be certified by the Clearinghouse, you must;

1. Graduate from High School
2. Have successfully completed at least 14 academic courses from the approved courses listed below. Only courses listed as approved can be used to calculate your NCAA GPA. The chart below indicates the number of years of NCAA core courses that must be completed.

	Division I	Division II
English Core	4 years	3 years
Math Core*	2 years*	2 years
Science Core (including at least 1 year of a lab science)	2 years	2 years
Social Science Core	2 years	2 years
From English, Math, or Science	1 year	2 years
Additional Core (English, Math, Science, Social Science, World Language, Philosophy, Non-doctrinal Religion)	2 years	2 years
<b>TOTAL CORE UNITS REQUIRED</b>	<b>13</b>	<b>13</b>

\*Note; Division I certification requires 2 years of math, including at least 1 year of algebra and 1 year of a higher level math.

3. Have a core course Grade Point Average and a score on the SAT or ACT based on the qualifier index scale. Details may be found at [www.ncaa.org](http://www.ncaa.org).

#### THE STUDENT RELEASE FORM

The Student Release Form (available from the athletic director) is critical, and normally should be done following completion of a student's junior year, once an informed judgment has been made as to the prospect's potential at the Division I or II level.

Note: "NCAA Division I - Freshman Eligibility Standards" are available at [www.ncaa.org](http://www.ncaa.org).

#### For the Class of 2008: Division I – 16 core courses

If you plan to enter college in 2008 or after, you will need to present 16 core courses in the following breakdown:

- \$ 4 years of English
- \$ 3 years of mathematics (Algebra 1 or higher)
- \$ 2 years of natural/physical science (one must be a lab science)
- \$ 1 year of additional English, math or science
- \$ 2 years of social studies
- \$ 4 years of additional core courses (from any area listed above, or from foreign language, non-doctrinal religion or philosophy)

#### Division I Grade-Point Average/Test Score Index Changes

This is an abbreviated version of the full scale. It shows the high end, low end, and points in between.

Grade-Point Average	SAT	ACT-sum of scores
3.550	400	37
3.000	620	52
2.750	720	59
2.500	820	68

2.250	920	77
2.00	1010	86

## **ADVANCED PLACEMENT (A.P.)**

The Advanced Placement (A.P.) Program gives students the opportunity to pursue college level studies while still in high school. A comprehensive examination may be given at the conclusion of the A.P. course. Based on individual scores a student may earn college credit.

An A.P. course may be valued one full grade point higher than the grade received. (Example: A = 5.0 instead of 4.0, B = 4.0 instead of 3.0, etc. See Grade Point Average and Honors in the Student Handbook.

## **SUPPLEMENTAL PLACEMENT CURRICULUM\***

Supplemental Placement Curriculum is designed to provide students with experiences in learning outside of the traditional curriculum; placement may or may not be within the confines of the high school building and is subject to the approval of a screening committee. This program is intended as a complement to our curriculum for students who reveal specialized talents or expressed interests. Applications may be secured from the counseling office. Credits will be determined in accordance with the individual program. The four major areas included are listed below:

### **ADVANCED STUDIES\***

**GRADES 9-12**

Advanced Studies is a four-year continuous program designed for students who have been previously identified and have been selected for participation. The curriculum includes: higher level thinking strategies, creativity, critical thinking skills, creative problem solving, time management and study skills. The class centers around large and small group interaction, individual student projects and field trips. As the student progresses through ASP, activities may include: community mentors, exploration of career options, student exchanges and further development of self-directed learning. Students unable to schedule advanced studies during the regular school day may discuss alternative options with their high school counselors.

### **INDEPENDENT STUDIES\***

**GRADES 11-12**

**Students taking Independent Studies must have approval from teacher, counselor and administration prior to the beginning of the semester in which it is to be taken.**

Independent study is designed to encourage students to engage in independent projects that could not be done in the regular school schedule (i.e. community service intern, research projects, etc.). An interested student should refer to his/her student handbook regarding the specific procedures required in developing a proposal and discuss his/her goals with a counselor. Credit is determined according to individual projects.

### **SCHOOL SERVICE** (1/4 credit, one semester or 1/2 credit, full year)

**GRADES 9-12**

Students may earn .25 credit per semester as a school service aide. School service assignments may be in any of the following areas: office aide, cafeteria aide, teacher aide, or custodial aide. School Service may be counted as an elective "pre-vocational" class. In these assignments, students will rotate through various skill areas in job exploration. Students may request school service for one class period per day, per semester, subject to the availability of school service positions and office approval. Course evaluation is designated as either "credit" or "no credit".

### **WORK EXPERIENCE\***

**GRADES 11-12**

Juniors and seniors who are on track with credits and graduation requirements may register for 1-3 credits of work experience per school year. Students must have a job site pre-approved through the district work experience coordinator. In order for a job site to be approved, the student must be working for a business that has a tax identification number, workman's compensation and liability

coverage for its employees. For state auditing purposes, written documentation is required for proof of work experience. Upon request, additional documentation may be required.

# SUPPLEMENTAL PLACEMENT CURRICULUM CONTINUED\*

## ADVANCED EDUCATIONAL PLACEMENT\*

GRADE 12

Dual enrollment is an option for some students. See letter on page 36.

\*IN MOST CASES STUDENTS WOULD BE RESPONSIBLE FOR PROVIDING THEIR OWN TRANSPORTATION.

## VOCATIONAL PROGRAMS

**AUTOMOTIVE TECHNOLOGY 1 AND 2**  
**COMPUTER GRAPHICS 1 AND 2**  
**COSMETOLOGY 1 AND 2**  
**EDUCATIONAL OCCUPATIONS 1 AND 2**  
**MEDICAL OCCUPATIONS 1 AND 2**

**MULTI-TECHNOLOGY 1 AND 2**  
**PUBLIC SAFETY/  
PROTECTIVE SERVICES 1 AND 2**  
**RECREATIONAL ENGINE  
TECHNOLOGY 1 AND 2**

The vocational classes offered through C.O.O.R. at Kirtland Community College meet Monday through Thursday from 11:45 a.m. to 2:15 p.m. Transportation to Kirtland Community College will be provided by the school. **It is highly recommended that students take the bus to and from the campus.** Students may need their own transportation home from Grayling High School.

All students applying to the vocational programs must have earned at least ten credits toward graduation. Since enrollments are limited, students must complete a special application that can be obtained in the counseling office. Acceptance to these programs is determined by a Screening Placement Committee. One and one half (1 1/2) credits may be earned each semester in these programs.

### **AUTOMOTIVE TECHNOLOGY 1** (1 ½ credits per semester, full year) **GRADES 11-12**

Career Pathway: Engineering, Manufacturing and Industrial Technology  
Entry Recommendations: High school technical/applied math and reading skills

This program is mainly a hands-on course designed to familiarize the student with the automotive unit. Design, production, operation, testing, servicing such as safety practices, basic hand tools, technical reference materials, cooling systems, lubrication systems, charging and starting system parts, and performance of basic service procedures will be covered the first semester.

Second semester will provide instruction in automotive brake system theory and service. Technician certification on the State and national levels, general work ethics and employment preparation will also be addressed. Certificate of completion in fundamentals and brakes, and ASE Certification are possible employability outcomes.

### **AUTOMOTIVE TECHNOLOGY 2** (1 ½ credits per semester, full year) **GRADE 12**

Career Pathway: Engineering, Manufacturing and Industrial Technology  
Entry Requirements: Successful completion of Automotive I and instructor's permission

Students will receive training in engine fundamentals and overhaul, basic electricity and automotive electrical system, fuel systems and emissions, heating and air conditioning, or steering, suspension and alignment. Students will receive direct college credit for successful completion of the program.

### **COMPUTER GRAPHICS 1** (1 ½ credits per semester, full year) **GRADES 11-12**

Career Pathway: Arts and Communication  
Entry Recommendations: Art, Photography, Computers, Drafting

Digital communication teaches two of the "industry standard" software programs, QuarkXpress and Adobe Photoshop. Students will learn page layout from business cards to brochures. They will be able to not only sample and color correct pictures but create posters exclusively in Photoshop and/or with the aid of QuarkXpress.

## **VOCATIONAL PROGRAMS CONTINUED**

### **COMPUTER GRAPHICS 2** (1 ½ credits per semester, full year) **GRADE 12**

Career Pathway: Arts and Communication

Entry Requirement: Successful completion of Computer Graphics I and Instructor's Permission

Students will receive advanced training in digital communications, art history, design, drawing, and photography.

### **COSMETOLOGY 1** (1 ½ credits per semester, full year) **GRADES 11-12**

Career Pathway: Human Services

Entry Recommendations: Biology, business education, chemistry, English, health education, speech

This program demonstrates all aspects an individual would need to have a career as a cosmetologist/hairstylist. Practical work would include: shampoos, haircuts, styles, straightening, hair color, permanent waves, manicures, facial treatments, wigs and hairpieces. Theory will prepare the student for state board exam and college level cosmetology. Students who successfully complete the course will earn approximately 350 hours and may be eligible for articulated college credit. Students will participate in a hair show competition, field trip to a hair show and a spa throughout the year. This program will also offer career exploration and employability skills

### **COSMETOLOGY 2** (1 ½ credits per semester, full year) **GRADE 12**

Career Pathway: Human Services

Entry Requirements: Successful completion of Cosmetology I and instructor's permission

The program will offer advanced skill mastery of shampoo, cut, set, style, straightening, bleach and tint, and permanent waves. Other skills to be taught include manicures, and skin care. Career exploration and employability skills will also be taught. Students will receive direct college credit for successful completion of Cosmetology II.

### **EDUCATIONAL OCCUPATIONS 1** (1 ½ credits per semester, full year) **GRADES 11-12**

Career Pathway: Human Services

The Educational Occupations program explores and trains students for a career in the educational field. Through this career choice students learn to impact and influence children's lives in an appropriate and positive manner and understand how to meet the six competency goals that ensure quality education for young children, which include establishing and maintaining a safe, healthy learning environment, advance physical and intellectual competence, support of social and emotional development and provide positive guidance, establishing positive and productive relationships with families, designing a professional program responsive to participant needs. Students will learn to meet specific needs of children and work with teachers and other professionals on how to nurture children's physical, social, emotional and intellectual growth. Students will learn strategies and teaching techniques through service learning and work-site visits throughout the year. The portfolio components necessary to obtain a Child Development Associate (CDA) will be developed and documented. A CDA is an individual who has successfully completed a portfolio and assessment and has been awarded the CDA credential.

### **EDUCATIONAL OCCUPATIONS 2** (1 ½ credits per semester, full year) **GRADES 12**

Career Pathway: Human Services

Entry Requirements: Successful completion of Educational Occupations I and instructor's permission

Students will receive further instruction in caring for children, learning theory, lesson design, classroom management, and math and literacy support.

## VOCATIONAL PROGRAMS CONTINUED

### **MEDICAL OCCUPATIONS 1** (1 ½ credits per semester, full year) **GRADES 11-12**

Career Pathway: Health Services

Entry Recommendations: Chemistry, biology, general science, math, writing, spelling and reading skills

Special Conditions: Must have Hepatitis B vaccine, TB test and physical before 2<sup>nd</sup> semester

Students will learn necessary skills that care providers must have to work in any department within the medical occupations, including: medical ethics and law, effective communications, medical terminology, medical related math, anatomy & physiology, CPR and 1st Aid Certification, infection control, workplace safety, employability and leadership skills. Opportunities will be available for students to participate in career exploration at a variety of work sites provided by our health care partners. Multi-disciplinary tasks and skills will be practiced and demonstrated by each student with special emphasis in their chosen health field. Students will develop a portfolio to showcase their vocational experience.

### **MEDICAL OCCUPATIONS 2** (1 ½ credits per semester, full year) **GRADES 12**

Career Pathway: Health Services

Entry Requirements: Successful completion of Health Occupations I and instructor's permission

Students will be trained further in medical terminology, basic EMT, anatomy/physiology, medical ethics and law, and lifetime wellness and nutrition.

### **MULTI-TECHNOLOGY 1** (1 ½ credits per semester, full year) **GRADES 11-12**

Career Pathway: Engineering, Manufacturing and Industrial Technology

Entry Recommendations: Career interest, high school technical/applied math and reading skills, strong spatial perception ability

A collage of programs including welding, machining and computer aided drafting. After completing this course a student will have a diversity of entry-level industrial arts employment skills. Students may participate in a field trip to the International Welding Show. Students will be eligible for a certificate of completion in multi-technology. Students may choose to participate in A.W.S welding certification and NIMS certification testing.

### **MULTI-TECHNOLOGY 2** (1 ½ credits per semester, full year) **GRADES 12**

Career Pathway: Engineering, Manufacturing and Industrial Technology

Entry Requirements: Successful completion of Multi-Technology I and instructor's permission

Students will receive advanced training in computer-aided drafting, welding, engineering graphics, metal machining, and metrology.

### **PUBLIC SAFETY/PROTECTIVE SERVICES 1** (1 ½ credits per semester, full year) **GRADES 11-12**

Career Pathway: Human Services

Entry Recommendations: Government, sociology, first aid, physical education, English, speech, and psychology

Special Conditions: Passed sports physical

This course introduces students to careers in Law Enforcement, Corrections, Fire Service, Private Security and Emergency Medical Services. Classroom work, physical training, mentoring, and hands on experience are all components of the course. Students are exposed to an extensive review of the current theories in criminal justice, protective services and fire/emergency medical services. Students who successfully complete the program may be eligible for college credits.

### **PUBLIC SAFETY/PROTECTIVE SERVICES 2** (1 ½ credits per semester, full year) **GRADES 12**

Career Pathway: Human Services

Entry Requirements: Successful completion of Public Safety/Protective Services I and instructor's permission

Special Conditions: Passed sports physical

Students interested in corrections will receive direct credit for client growth and development, legal issues, correctional institutions/facilities, client relations in corrections, and an on-campus internship. Law enforcement or emergency medical options are also available. Students will receive direct college credit for successful completion of Public Safety/Protective Services II.

## VOCATIONAL PROGRAMS CONTINUED

### **RECREATIONAL ENGINE**

**GRADES 11-12**

**TECHNOLOGY 1** (1 ½ credits per semester, full year)

Career Pathway: Engineering, Manufacturing and Industrial Technology

Entry Recommendations: High school technical/applied math and reading skills

This program will introduce students to shop safety practices, tool and equipment usage, laboratory procedures, two and four-cycle engines and sub-components. Course covers the complete tear down & assembly of small air-cooled and water cooled engines. It covers in detail the theory and operation of a small engine career exploration and employability skills will also be taught as part of our program. A certificate of completion in shop fundamentals, two-stroke engine, four-stroke engine, marine, and snowmobile repair are possible. Other certifications may be possible depending on the student's career goal.

### **RECREATIONAL ENGINE**

**GRADES 12**

**TECHNOLOGY 2** (1 ½ credits per semester, full year)

Career Pathway: Engineering, Manufacturing and Industrial Technology

Entry Requirements: Successful completion of Recreational Engine Technology I and instructor's permission

Students may return to the COOR Area Career Tech program for a second year and focus on an independent study for their career choice. Based upon student performance, attendance and availability, a work-site experience may be offered. Possible certificate of completion in one or more of the following Two Stroke Engine Repair, Four Stroke Engine Repair, Outboard Repair, Lawn & Garden Equipment Repair, and Motorcycle/ATV Repair.

## DUAL ENROLLMENT

Students who are in grade 11 or 12, are enrolled in at least one high school course, and who have achieved a state endorsement in at least one area of the MEAP High School Tests, are eligible to participate in post-secondary options or dual enrollment. That is, the student may enroll and take college or university courses and the school district must pay the student's tuition and mandatory course or material fees and registration fees. The college or university bills the school's district. To learn more about post-secondary options or dual enrollment look for the Postsecondary Options FAQ at [www.michigan.gov](http://www.michigan.gov).

February 2004

Dear Student:

In an effort to meet students' needs and interests, school districts have allowed their students to attend courses at local colleges or universities, in addition to their own high school. This is called "dual enrollment."

A new law, Public Act 258 of 2000, created the Career and Technical Preparation Post-secondary Options Act. This Act took effect April 1, 2001, and will be administered by the Michigan Department of Career Development. The Act directs school districts to assist students in paying tuition and fees for courses at Michigan public or private colleges or universities if all of the following conditions are met:

1. Students are in grade 11 or grade 12.
2. Eligible students are those who are in grade 11 or 12, are enrolled in at least one high school course, and who have achieved a state endorsement in all subject areas (mathematics, science, reading, writing) of the MEAP High School Test. If the student hasn't achieved endorsements in all areas, the student is still eligible to take courses limited only to the areas in which he or she has received endorsements. Both 11<sup>th</sup> and 12<sup>th</sup> graders are also eligible to take courses within subjects for which there are no endorsements, such as philosophy, religion, psychology, sociology, anthropology, computer science, and/or foreign language courses not offered by the District, as long as they have taken all of the MEAP High School Tests. State endorsement is not required in any specific area. Fine arts, career and vocational programs leading to a degree are also available to the students.
3. Students must be enrolled in both the school district and post-secondary institution during the local school district's regular academic year and must be enrolled in at least one high school class.
4. The college courses must not be offered by the district. An exception to this could occur if the Board of Education determines that a scheduling conflict exists, which is beyond the student's control.
5. The college courses cannot be hobby craft, recreation courses, or in the subject areas of physical education, theology, divinity, or religious education.
6. Tuition and Fees -  
§ **If a student drops a course beyond the time during which the post-secondary institution will refund the school district, the student is responsible for repaying the school district for the course.** If a student fails to repay the school district, the district may apply penalties as prescribed by local district policy. A student who fails to complete a course due to a family or medical emergency is exempt from the repayment requirement.
- § Any books purchased by the district for the pupil are property of the district. The district is not responsible for any expenses related to transportation, parking, or activity fees.
7. Credit - Eligible students are allowed to choose whether credit earned at a career and technical preparation course will apply to high school or the post-secondary institution or both. The amount of high school credit is determined by the school district and shall be counted toward graduation requirements.

Please review the contents of this letter with your parents. If you believe you are eligible for dual enrollment, that you qualify for tuition and fee support, and you wish to participate, contact your counselor: Kathy Frederick (A-L) or Lynn Thompson (M-Z).

Sincerely,

K. Doniel Pummell, Principal  
Grayling High School

