

## GRADUATION REQUIREMENTS

The following courses are required for all WAHS students during grades 9-12:

Classes	Credits Earned
4 years of English: credits	4
3 years of math:	3 credits
4 years of social studies: credits	4
3 years of science: credits	3
1.5 years of PE:	1.5 credits
.5 years of health: credits	.5
1 credit of arts*** credits	1.0
<b>Total Required CREDITS</b>	<b>17 credits</b>
<b>Additional electives REQUIRE</b>	<b>7 credits*</b>
<b>TOTAL CREDITS REQUIRED FOR GRADUATION</b>	<b>24 CREDITS</b>

\* A student is required to take at least **7 elective courses** during grades 9-12 for a total of **24 credits**. One passed semester-long class equals .5 credit.  
\*\*\*this credit can be earned in Band, Choir, HS Art, Tech Applications, Architectural Drafting, Technical Drawing or Interior Design. Band and Choir are only 0.5 credits per year.

### THE PATH TO COLLEGE

NCAA Division 1 schools require the following requirements below. Students are expected to take a yearly full course load that includes electives in addition to these core courses. This is also a solid 9-12 plan for applying to any college or university.

#### NCAA Division I Eligibility (16 Core Course Rule)

4 years of English  
3 years of Mathematics (Algebra I or higher)  
2 years of natural/physical science (1 year of lab if offered by high school)

1 year of additional English, mathematics or natural/physical science  
2 years of social science  
4 years\* of additional courses (from areas above, foreign language or non-doctrinal religion/philosophy)  
\*this is usually met at WAS with 2 years foreign language + 2 years of required social

### High School Preparation Standards for Minnesota's State Universities

English (Minimum of 4 years)  
Mathematics (Minimum of 3 years)  
Sciences (Minimum of 3 years)  
Social Studies (Minimum of 3 years)  
World Language (Minimum of 2 years of a single world language)  
Electives (Minimum of 1 year of either world culture or fine arts)

## COURSE DESCRIPTIONS: 7-8

### LANGUAGE ARTS

#### Course: English 7

Grade Level: 7  
Length of Class: Year  
Prerequisite: None

**Course Description:** The focus of the seventh grade language arts curriculum is on vocabulary development and reading comprehension. Students participate in a variety of reading programs to facilitate life-long reading habits and offer ample reading practice. Students also study Greek and Latin roots, spelling, and grammar. Students use writing as a means to exhibit comprehension. Students learn reading strategies as preparation for MCA-II. Technology is incorporated into assignments when necessary.

#### Course: English 8

Grade Level: 8  
Length of Class: Year  
Prerequisite: None

**Course Description:** Students will read a variety of literature throughout the year: poems, short stories, plays, novels. Informative, persuasive, and demonstration speeches will be prepared and given. Students will continue to study: grammar, Greek and Latin roots, vocabulary development, and spelling. They will learn reading strategies to

help prepare them for the Reading MCA - II. Technology is incorporated into assignments when necessary.

## **SOCIAL STUDIES**

### **Course: Early American History**

Grade Level: 7  
Length of Class: Year  
Prerequisite: None

**Course Description:** Students will be involved in an in-depth study of the history of the United States, from the beginnings of the country through the Reconstruction Period after the divisive Civil War. Students will develop an understanding of how our country evolved from the pre-Revolutionary war to the Civil War, which bitterly divided the country. Students will also be introduced to significant historical events that occurred after the Civil War through present day America. Students will also participate in National History Day.

### **Course: World Geography**

Grade Level: 8  
Length of Class: Year  
Prerequisite: None

**Course Description:** Students will cover all of the continents of the world and how they function. Students will be exposed to different cultures and regions of the earth. Students will be able to identify certain countries on the map and explain different characteristics about them.

## **SCIENCE**

### **Course: Life Science**

Grade Level: 7  
Length of Class: Year  
Prerequisite: None

**Course Description:** Students will practice being a scientist throughout the year. They will gain skills in solving problems using scientific method. Topics being studied will be cells, ecology, matter, energies of life (photosynthesis, respiration, fermentation), mitosis, DNA, heredity, ecology, environmental problems, classification, and the five kingdoms.

"Hands on" activities will be included in all of the topic areas to insure that students will "learn by doing".

Each student will keep his/her lab experiences in a notebook that will be graded and become a record of their accomplishments throughout the year.

### **Course: Earth Science**

Grade Level: 8  
Length of Class: Year  
Prerequisite: None

**Course Description:** Students are required to do inquiry work in the areas of study. The course work includes plate tectonics, geology (including mineral and rock identification), oceanography, meteorology, astronomy, chemistry, and environmental issues.

## **MATH**

### **Course: Math 7 Pre-Algebra**

Grade Level: 7  
Length of Class: Year  
Prerequisite: Math 6

**Course Description:** The students will work in the Prentice Hall Pre-Algebra book studying topics such as solving equations, order of operations, and properties in math, fractions, decimals, exponents, and ratios. The students will also work on practice problems to help prepare them for the state MCA's test.

### **Course: 8th Grade Algebra 1**

Grade Level: 8  
Length of Class: Year  
Prerequisite: Math 7

**Course Description:** The students will use Prentice Hall Algebra I book for this class. The students will study topics such as solving equations, solving inequalities, solving proportions, graphing, working with functions and linear equations, and exponents. The students will also work on practice problems to help prepare them for the 8th grade basic skills (MCA's) test.

## **ART**

### **Course: Art 6/7**

Grade Level: 6/7  
Quarter Class  
Prerequisite: None

**Course Description:** Art 6/7 is a quarter class required of all sixth and seventh grade students. It includes a variety of activities that stress basic knowledge and skills. Students learn the vocabulary of the visual art

elements and design principles. They will experience the creative process and problem solving in numerous 2 and 3 dimensional art media. Art in culture will also be integrated within assigned projects.

### **FACS**

#### **Course: FACS 6/7**

Grade Level: 6 & 7

Length of Class: Quarter

Prerequisite: None

**Course Description:** There are two introductory units of Family and Consumer Science, FACS. Areas to be studied include: Leadership, Values, Needs vs. Wants, Decision Making, Goal Setting, Career Exploration, basic sewing skills, family and friend relationships, wellness and food and nutrition.

#### **Course: FACS 8/9**

Grade Level: 8 and 9

Year or Sem: Quarter

Prerequisite: FACS 6/7

**Course Description:** There are two units of Family and Consumer Science, FACS, that continues on from FACS 6/7. Areas to be studied include: Paychecks, Spending Plans, Saving, Banking Basics, Checking Accounts and Clothing. Students will construct a personal clothing project, child development, housing and interiors, and food and nutrition with basic cooking skills.

### **PHYSICAL EDUCATION & HEALTH**

#### **Course: Physical Education 7**

Grade Level: 7

Length of Class: Year

Prerequisite: None

**Course Description:** Seventh grade physical education encourages the refinement of motor skill combinations used in increasingly complex game environments. Knowledge of movement concepts and principles promote effective participation in physical activity settings. An introduction to the rules and strategies of individual/team sports and activities is emphasized at this level. The achievement of a health enhancing level of physical fitness is established through assessment and goal setting. Through participation in a variety of activities, students will develop a respect for one another and an awareness of opportunities for lifelong fitness. Class is held every other day, opposite health.

#### **Course: Health 7**

Grade Level: 7

Length of Class: Year

Prerequisite: Required

**Course Description:** Seventh grade health education provides students with the foundation of concepts and skills necessary for lifelong health. Current health concepts are integrated with nationally recognized, health-based skills. Health class is held every other day opposite PE.

#### **Course: Physical Education 8**

Grade Level: 8

Length of Class: Year

Prerequisite: None

**Course Description:** Eighth grade physical education promotes the use of specialized skills in sport and fitness activities. Emphasis is placed on applying movement concepts and principles to real life situations. A working knowledge of rules and game strategies is developed through participation in a wide variety of activities. Eighth grade students will accept personal responsibility for their own personal fitness, and actively pursue lifelong physical activity to meet their needs. Students will respect and participate cooperatively in physical activity with persons of diverse characteristics and backgrounds. Class is held every other day, opposite health.

#### **Course: Health 8**

Length of Class: Year

Prerequisite: Required

**Course Description:** Eighth grade health education takes the foundation of concepts and skills that were developed in seventh grade and provides students with a deeper understanding of the topics necessary for total wellness. Current health concepts are integrated with nationally recognized, health-based skills. Health class is held every other day opposite PE.

### **MUSIC**

#### **Course: Choir 7/8**

Grade Level: 7-8

Length of Class: Semester

Prerequisite: None

**Course Description:** This group focuses on the music elements, singing 2/3 part music from different styles of music. Two concerts are performed each year. Students focus on vocal development

while perfecting their singing part.

**Course: Concert Band 7/8**

Grade Level: 7-8

Length of Class: Year

Prerequisite: Permission by Director

**Course Description:** Students will review the elements of music previously learned as well as gain new knowledge of music theory and history. Band members will study a variety of styles from different eras and prepare for performances, which are the main focus of this class. A varied number of performances will be required throughout the duration of the class.

Private/group lessons are required.

**Course: Concert Band 6**

Grade Level: 6

Length of Class: Year

Prerequisite: Permission by Director

**Course Description:** Description:

Students will review the elements of music previously learned as well as gain new knowledge of music theory and history. Band members will study a variety of styles from different eras and prepare for performances, which are the main focus of this class. A varied number of performances will be required throughout the duration of the class.

Private/group lessons are required.

**Course: Choir 6**

Grade Level: 6

Length of Class: Year

Prerequisite: None

**Course Description:** Students will review the elements of music previously learned as well as gain new knowledge of music theory and history. This group sings two concerts a year.

Students sing unison/2-part music while working on vocal development.

## TECHNOLOGY

**Course: Intro to Technology Learning Center**

Grade Level: 6 & 7

Year or Semester: Quarter

Prerequisite: None

**Course Description:** The Technology Learning Center has 19 different instructional modules. Students will study at a module using on-screen computer lessons and tests, a written lab assignment guide, a student workbook, various textbooks, and computer programs. Each module involves "hands-on" learning activities in addition to the course curriculum. Student assignments and tests are recorded and graded by a computerized

lab management system. Each module is approximately 10 hours in length. A student should be able to complete 4 or 5 modules during one quarter.

**Course: Middle School Technology Learning Center**

Grade Level: 8 & 9

Year or Semester: Quarter

Prerequisite: None

**Course Description:** The Technology Learning Center has 19 different instructional modules. Students will study at a module using on-screen computer lessons and tests, a written lab assignment guide, a student workbook, various textbooks, and computer programs. Each module involves "hands-on" learning activities in addition to the course curriculum. Student assignments and tests are recorded and graded by a computerized lab management system. Each module is approximately 10 hours in length. A student should be able to complete 4 or 5 modules during one quarter.

## BUSINESS

**Course: Keyboarding/Computer Applications**

Grade Level: 6 & 7

Length of Class: Quarter (9 weeks)

Prerequisite: None

**Course Description:** This course is an introduction to creating, editing, and printing short essays, tabulation projects, and letters. Emphasis is placed on using the correct keystrokes, speed and accuracy, correct formatting of documents. Key activities for this course are the use of graphics, title pages, data bases, spreadsheets, and PowerPoint's. Computer programs used include Microsoft 2007 Word, Excel, Access, and PowerPoint.

**Course: Intro to Business**

Grade Level: 8 & 9

Year or Semester: Quarter (9 weeks)

Prerequisite: None

**Course Description:** Students will be introduced to a variety of systems used in the business world and everyday life of Americans. Subjects covered include how to balance a checkbook, investing their money, keeping their money safe, interviewing for a job, writing business correspondence such as cover letters, and resumes. Students will also be exposed to business world practices such as accounting and marketing.

## **Foreign Language**

### **Course: Middle School Survey**

#### **Course for Spanish**

Grade Level: 8/9

Term Length: Quarter

Prerequisite: None

**Course Description:** Students in grades 8 and 9 participate in various activities related to building basic Spanish vocabulary and conversation. This course is designed to introduce students to the language; helping them to make qualified decisions in the future with regard to choosing electives, as well as prepare them for Spanish I, if they choose to take it their 10<sup>th</sup> grade year.

## **COURSE DESCRIPTIONS: 9-12**

### **LANGUAGE ARTS**

#### **Course: English 9**

Grade Level: 9

Length of Class: Year

Prerequisite: None

**Course Description:** In English 9 students cover an extensive amount of literature from a classic novel to several short stories to a Shakespearean play. A media literacy unit focusing on advertising is covered. They also study the poetic elements and figurative language in order to give poetry/ music oral presentation. Grammar is studied in correlation with a comprehensive writing unit. Vocabulary comprehension is addressed in the reading of the literature as well as a "Word of the Day" and Greek/ Latin roots tests. Short essays are also written in response to their literature. Technology is incorporated into assignments when necessary.

#### **Course: English 10**

Grade Level: 10

Length of Class: Year

Prerequisite: English 9

**Course Description:** Students will use literary elements to analyze different types of literature from around the world. Elements of reading will be reviewed to prepare for the MCA test. A media literacy unit focusing on magazine and newspaper sources as well as the internet is covered. Students write a primarily persuasive research paper and present a power point based on their research. Students will continue to study Greek and Latin roots, grammar components, and

vocabulary. Technology is incorporated into assignments when necessary.

#### **Course: English 11**

Grade Level: 11

Length of Class: Year

Prerequisite: English 10

**Course Description:** English 11 focuses on an extensive American Literature study covering numerous short stories, plays, novels and poetry. Students are required to read this literature at a higher level and interpret it by analyzing their patterns and relationships of ideas, topics, or themes. Essays analyzing this literature use the MLA style of documentation. Grammar and usage are also taught as separate units and/or in connection with the written work. A media literacy unit focusing on film studies is also covered. Vocabulary comprehension is studied through the literature as well as the "Word of the Day" and Greek/ Latin Roots studies. Technology is incorporated into assignments when necessary.

#### **Course: English 12**

Grade Level: 12

Length of Class: Year

Prerequisite: English 11

**Course Description:** English 12 students begin the year by writing an MLA documented Academic Research Paper in which they construct support for a position, argument, plan, or idea. Students then concentrate on an extensive media literacy focusing on television, especially network bias. Students also read, analyze, and interpret various genres of literature at a higher level. Vocabulary enhancement continues throughout the senior year with "Word of the Day" tests. Technology is incorporated into assignments when necessary.

#### **Course: English 151 - Academic Writing (4 college credits)**

Grade Level: 12

Length of Class: semester

Prerequisite: Must meet SMSU requirements for grade level and complete English 10 and 11.

**Course Description:** English 151 Academic Writing is the primary entry-level writing class for all college students and is one of the core first-year liberal arts classes. English 151 serves as a beginning point for helping students engage in the goal to "communicate effectively." Toward this end, English 151 will enable students to determine a writing purpose, and

generate ideas to support a topic, determine an audience, develop a focus, and organize a written text, beginning with more personal, or "reflective" writing and moving on to expository writing and argument. At least two of these papers will involve a research component through which students begin to learn how purpose and audience affect the content, language, and form of a written text. Students will use MLA documentation and continue writing portfolios.

**Course: Introduction to Literature 120 (3 college credits)**

Grade Level: 12

Length of Class: semester

Prerequisite: English 151 & must meet SMSU requirements for grade level.

**Course Description:** This course will deepen students' understanding and appreciation of literature as an art form as well as strengthen students' ability to read, analyze, and interpret short stories, plays, novels, and poetry for deeper meaning. Students will use MLA documentation and continue writing portfolios.

**Course: Communications 110: Essentials of Speaking and Listening (3 college credits)**

Grade Level: 11, 12

Length of Class: Semester

Prerequisite: None

**Course Description:** Students focus on interpersonal communication particularly the importance of understanding verbal and nonverbal language as well as a study of how technology is affecting communication practices as a whole. An emphasis is placed on the technical skills of presenting a speech to inform, persuade, and demonstrate, as well as special event presentations.

Technology is incorporated into assignments when necessary.

**SOCIAL STUDIES**

**Course: Civics**

Grade Level: 9

Length of Class: Semester

Prerequisite: None

**Course Description:** Students will cover a wide range of issues that will help make them better citizens of the U.S. They will study state and national government and do several government participation projects.

They will learn about their constitutional rights and the responsibilities and duties of citizenship.

**Course: World Geography**

Grade Level: 9

Length of Class: Semester

Prerequisite: None

**Course Description:** Students will cover all the continents of the world and how they function. Students will be exposed to different regions of the world. Students will be able to identify certain countries on the map and explain different characteristics about them.

**Course: U.S. History in the 20th Century**

Grade Level: 10

Length of Class: Year

Prerequisite: None

**Course Description:** Students will take a look at American history from the late 1800's through the development of the country to a world superpower during WWII and the issues of the modern era. They will do projects that require them to research and analyze events and historical figures that helped shape the country.

**Course: World History**

Grade Level: 11

Length of Class: Year

Prerequisite: None

**Course Description:** Students will study the early civilizations and empires of the world. The class will look at many of the aspects of these groups, including religions, governments, economies, and industrialization.

Students will also be shown what effects globalization has had on the world.

**Course: Economics**

Grade Level: 12

Length of Class: Semester

Prerequisite: None

**Course Description:** Students will examine many of the forces in the world that affect everything from the price they pay for the gas they put in their car to the health of the U.S. and world economy. Students will also learn about options for their own financial future and will participate in the Stock Market Game.

**Course: Sociology**

Grade Level: 12

Length of Class: Semester

Prerequisite: None

**Course Description:** Student will be asked to examine many aspects of their

personal life and see how much of an impact society has on them. The class examines many of the controversial issues of the day that impact all of our lives.

**Course: College Psychology**

Grade Level: 11, 12

Length of Class: Semester

Prerequisite: Students must meet the qualifications for concurrent enrollment to enroll in this course. This course is MSCTC PSYC 1200 General Psychology 3 credits. This course is listed on the Minnesota Transfer Curriculum.

**Course Description:** This is a comprehensive introductory overview of psychology that studies human behavior and mental processes. Topics include: research methods, the history of psychology, theories of human behavior, the physiological basis of behavior, sensation, perception, behavioral learning, memory, problem solving, language development, personality theory, intelligence, the influence of groups on the behavior of individuals, and altered states of consciousness such as sleep and dreams.

**SCIENCE**

**Course: Intro to Physics**

Grade Level: 9

Length of Class: Semester

Prerequisite: None

**Course Description:** This class covers energy, motion, forces, work, light, heat, color, electricity and the nature of science and engineering and electricity.

**Course: Intro to Chemistry**

Grade Level: 9

Length of Class: Semester

Prerequisite: None

**Course Description:** This class fulfills one of the semester requirements for chemistry. The makeup and properties of matter and its interaction with energy are studied. Topics include atomic theory, states of matter bond types, physical and chemical changes. Students are introduced to inorganic and organic nomenclature.

**Course: Biology**

Grade Level: 10

Length of Class: Year

Prerequisite: None

**Course Description:** Biology is the study of life. Cells, ecology, environmental problems, photosynthesis, cell respiration, DNA, genetics, life changes, mitosis, meiosis,

classification, evolution and the five kingdoms will comprise the major areas of study. As these topics are covered students will also practice solving problems using scientific method.

"Hands on" activities will be included in all of the topic areas to insure that students will "learn by doing". Each student will keep his/her lab experiences in a notebook that will be graded and become a record of their accomplishments throughout the year.

**Course: Chemistry**

Grade Level: 11,12

Length of Class: Year

Prerequisite: Algebra I

**Course Description:** This course includes study of atomic theory, periodic law, similarities and differences of bond types, and the mechanics of reactions with equations for inorganic and organic processes. Through the year students will apply scientific method as they participate in problem-solving and doing many math problems.

**Course: General Chemistry**

Grade Level: 11, 12

Length: Semester

Prerequisite: Algebra I

**Course Description:** This class fulfills the second semester requirement for chemistry. The makeup and properties of matter and its interaction with energy are studied. Students will gain a working knowledge of how elements and compounds react, and how to describe chemical processes in inorganic and organic chemistry.

**Course: Anatomy**

Grade Level: 11, 12

Length of Class: Semester

Prerequisite: Biology

**Course Description:** Nine major human body systems will be studied including Integumentary System, Circulatory System, Muscular System, Skeletal System, Digestive System, Excretory System, Endocrine System, Respiratory System, and Nervous System. The basic structure and functioning of each system will be investigated. The dissection of the cat occurs after all body systems have been studied.

**Course: Astronomy**

Grade Level: 11, 12

Length of Class: Semester

Prerequisite: None

**Course Description:** Astronomy is the study of the observable universe. Students will learn about the Earths place in the universe, as well as other astronomical bodies, including: the sun, the moon, planets, asteroids and comets, stars, galaxies, supernovae and black holes, among others. Students will be asked to complete summary reports, design projects and summative assessments. A practical portion of the class will include attending at least two stargazing meetings during the semester.

**Course: Physics**

Grade Level: 12

Length of Class: Year

Prerequisite: Physical Science and Biology, Algebra 1

**Course Description:** In this class students will learn about the basic concepts of Science. They will do a lot with motion. This includes motion in one dimension and two. They will also work with concepts of work, energy and momentum. This class will include many hands-on activities and labs. Most of the studies involve manipulating formulas and equations to solve qualitative problems.

**Course: College Biology I**

Grade Level: 11,12

Length of Class: Year

Prerequisite: Three years of Science 8-11 grade, 3.2 overall GPA as a junior or 2.8 overall GPA as a senior, and teacher recommendation (MSCTC-Fergus Falls)

**Course Description:** Students will have the vigor of a college Biology course in high school. They will do 12 required labs working with E. coli, plants, fruit flies, pill bugs, cockroaches and many more. They will study chemistry, evolution, photosynthesis, cell respiration, DNA, genetics, mitosis, meiosis, classification, ecology, nature and history of science.

**MATH**

**Course: Geometry**

Grade level: 9th

Year or semester year

Prerequisite: Algebra 1

**Course Description:** The first semester the students will focus on geometry topics such as points, lines, planes, segments, rays, perimeter, circumference, area, volume, parallel lines, perpendicular lines, triangles,

quadrilaterals, and sine/cosine functions. The students will take the second semester to review their algebra skills such as using exponents, order of operations, equations, inequalities, graphing, quadratic equations, polynomials, and factoring.

**Course: Algebra II**

Grade Level: 10th

Length of Class: Year

Prerequisite: Geometry

**Course Description:** In Algebra 2, we will start out by doing a review of some basic algebra concepts including solving equations, factoring, and exponents. We will also discuss topics of real numbers and their operation. After this review we will start by solving inequalities and work with solving inequalities. Next we will work with polynomials with multiplication and division. The final topic will be the discussion of solving down quadratic equations and system of equations. The final month of the year will focus on covering the basic topics of statistics including mean, median, mode, standard deviation, probability and chance. We will also discuss ways of presenting this information including Histograms, bar graphs, box plots and circle graphs.

**Course: Advanced Algebra/ Pre-Calculus**

Grade Level: 11th

Year or Sem: Year

Prerequisite: Algebra 2

**Course Description:** In this class we will expand on the concepts of inequalities, functions and graphs, quadratic equations, polynomial functions, and quadratic relations with circles, parabolas, ellipses and hyperbolas. Next we will focus on some of the basic topics of trigonometry including the functions, graphs and solving application problems with trigonometry relations. Finally we will review the some of the basic concepts in advanced algebra as a review.

**Course: Math Concepts (Intervention)**

Grade Level: 6,7,8

Year or Sem: Year

**Course Description:** This class is designed to work on the areas the students are behind in. The students will be given a diagnostic test to start the class and they will be given



instructions and lessons based on this test.

**Course: Math Concepts (Grad Review)**

Grade Level: 12  
Year or Sem: Year

**Course Description:** This class is for students who have not passed the 11<sup>th</sup> Grade mathematics test. The students will work on areas that they are low on and retest every 6 weeks. If they passed the test within the semester, then the rest of the semester will be a study hall.

**Course: PreCalculus**

Grade Level: 11-12  
Year or Sem: Year  
Prerequisite: Three years of math 8-11 grade, 3.2 overall GPA as a junior or 2.8 overall GPA as a senior, and passing the prerequisite math test (MSCTC-Fergus Falls)

**Course Description:** Precalculus will deal with the topics of rational and polynomial Functions, exponential and logarithmic functions, inverse functions, quadratic equations, inequalities, matrices, progressions, complex numbers, theory of equations and variations, and linear equations in one, two and three unknowns. It will also deal with the triangle, especially the right Triangle. Sin, Cosine, Tan and their reciprocals are used to solve many real life problems. Preliminary concepts include Conics, right triangle trigonometry, radian measure and circular functions, identities, equations, inverse functions, oblique triangles, complex numbers and polar coordinates.

**Course: Calculus**

Grade Level: 12  
Year or Sem: Year  
Prerequisite: Algebra 2 and permission of instructor or PreCalculus

**Course Description:** This a college-level course in differential and integral calculus, equivalent to one semester of calculus at most universities. Topics include a review of functions, an introduction to limits and continuity, derivatives and their applications, integrals and their applications, anti-derivatives and the Fundamental Theorem of Calculus, and an introduction to differential equations using slope fields. There is an emphasis on conceptual understanding and working with functions represented

graphically, numerically, analytically and verbally. The TINspire CAS graphing calculator is used extensively.

**BUSINESS EDUCATION**

**Course: Accounting 1**

Grade Level: 11 or 12  
Length of Class: Year  
Prerequisite: None

**Description Course Description:** Accounting touches the lives of everyone. This class will involve the students in discussion and hands-on financial transactions and reports. The students will cover subject material including the starting of an accounting system, journalizing business transactions, posting, preparing work sheets, income statements, balance sheets, adjusting and closing entries, post-closing trial balance, using special journals, checking accounts, reconciling of bank statements, payroll, and plant assets. The course will culminate in an accounting simulation. The class content is well suited for the students who may or may not be seeking a career in the accounting field. Many topics covered will be beneficial to students concerning their personal financial goals and needs.

**Course: Accounting II**

Grade Level: 11 or 12  
Length of Class: Year  
Prerequisite: Accounting I

**Course Description:** This is a college level course. Currently, at the end of the course, the students will be able to take the Financial Accounting Clep exam. If they pass the exam, they will earn college credits. This course covers both Financial and Managerial accounting. Studies include the application of accounting and business problems; explains financial statement presentation, business combinations and consolidated financial statements. Explains financial accounting standard setting, concepts of financial accounting, balance sheets and income statements, and revenue and expense recognition; defines accounting for current assets, current liabilities, fixed assets, and intangible assets. The course also emphasizes accounting for inventories, securities, stockholder equity, long-term liabilities, and earnings per share, accounting changes, and cash flow analysis.

**Course: Personal Finance**

Grade Level: 11, 12  
Length of Class: Semester  
Prerequisite: None  
**Course Description:** Financial consumer skills are needed in everyday life by everyone regardless of age, sex, race, or religion. Units include financial planning, budgeting, insurance, taxes, wise use of credit and investments. The class will also have guest speakers from financial institutions.

**Course: Business Law**

Grade Level: 11, 12  
Length of Class: Semester  
Prerequisite: None  
**Course Description:** Students will study both criminal and civil with an emphasis on business law. Topics that will be covered include legal history, current legal issues, contracts, insurance, consumer law, case analysis, and the court system. Students will learn from analyzing cases, participating in class discussions, and viewing videos.

Course Objectives are understand the nature and kinds of law, will know and be able to apply appropriate legal terminology, demonstrate knowledge of laws related to minors, to consumers, and to business firms, demonstrate knowledge of the basic elements of a contract, demonstrate knowledge of laws related to specific types of contracts

**Course: Occupational Relations**

Grade Level: 11 or 12  
Length of Class: Year  
Prerequisite: None  
**Description:** Course Description: The students will be placed with local businesses to learn the various aspects of the business world. Students will be required to complete various reports and projects throughout the school year. The student will be graded on their work performance and their classroom activities.

**Course: Sales and Marketing**

Grade Level: 11 or 12  
Length of Class: 1 semester  
Prerequisite: None  
**Description:** A general course in marketing theory and methods. Among topics discussed are the importance of marketing, the interrelationship of the different phases of marketing, the differences between the marketing of goods and services, wholesaling,

retailing, pricing strategies, analysis of markets, and distribution. This course also covers the components of advertising and its function within the total marketing function. The course examines advertising campaigns and procedures dealing with planning, creation, production, media management, and research and budgeting.

**FACS**

**Course: Child Development**

Grade Level: 10-12  
Year or Sem: Semester  
Prerequisite: None  
**Course Description:** This class will include information about prenatal development, the birth of a baby, and effective parenting skills. The student will gain knowledge about the physical, social, intellectual and emotional development of children at various ages and stages from birth through school age.

**Course: Independent Living**

Grade Level: 10-12  
Year or Sem: Semester  
Prerequisite: None  
**Course Description:** This course will include the skills required to live on your own: goal setting, career exploration and development, paychecks, spending and saving, investing, financial institutions, credit, insurance, consumer protection, housing, transportation, laundry, basic sewing survival skills and food.

**Course: Housing and Interior Design**

Grade Level: 10-12  
Year or Sem: Semester  
Prerequisite: None  
**Course Description:** This course helps students to become informed housing consumers through the exploration of current trends in housing and interior design. Topics include designing livable homes, renting vs. buying, housing technology and planning for construction.

**Course: Sewing**

Grade Level: 10-12  
Year or Sem: Semester  
Prerequisite: None  
**Course Description:** In this course students will choose to construct a fashion or home apparel item(s). Students will build upon the basic skills acquired in previous courses. Sewing skills may include: gathers, shaped seams, corners, lining, facings,

hand or machine embroidery, trims, quilting.

**Course: Foods and Nutrition**

Grade Level: 10-12

Year or Sem: Semester

Prerequisite: None

**Course Description:** Course Description: Financial consumer skills are needed in everyday life by everyone regardless of age, sex, race, or religion. Units include financial planning, budgeting, insurance, taxes, wise use of credit and investments. The class will also have guest speakers from financial institutions.

**INDUSTRIAL TECHNOLOGY**

**Course: Metals / Welding Technology**

Grade Level: 10-12

Course Length: Semester

Prerequisite: None

**Course Description:** Metals Technology. Students will receive instruction in the following areas: sheet-metal fabrication, metal machining, foundry, and heat-treating. The course instruction includes equipment demonstration, shop safety and project work.

Welding Technology. Students will learn how to weld using: oxyacetylene equipment, conventional "stick electrode" arc welders, and "wire-feed" MIA welders. Course instruction includes shop safety, equipment use, welding practice, and limited project work.

**Course: Technical Drawing**

Grade Level: 10-12

Course Length: Semester

**Course Description:** Students enrolled in this class will design a house and draw a set of plans. Students will learn to use traditional drafting equipment and computer aided drafting programs.

**Course: Technology Learning Center**

Grade Level: 10 - 12

Course Length: Semester I, Semester II, or Year

Prerequisite: None

**Course Description:** The Technology Learning Center has 19 different instructional modules. Students will study at a module using on-screen computer lessons and tests, a written lab assignment guide, a student workbook, various textbooks, and computer programs. Each module involves

"hands-on" learning activities in addition to the course curriculum. Student assignments and tests are recorded and graded by a computerized lab management system. The modules are based upon self-directed learning. Each module is approximately 40 hours in length. Module selection shall be based upon student interest and ability.

**Course: Wood Technology**

Grade Level: 10-12

Course Length: Year

Prerequisite: None

**Course Description:** Students in this class will learn about woodworking and cabinet building. Course work will include instruction on the use of hand and machine woodworking tools. The students will design and build projects appropriate for the course length.

**Course: Energy / Power Technology**

Grade Level: 10-12

Length of Class: semester

**Course Description:** Energy / Power Technology provides a broad overview of both our energy sources and our use of controlled energy and power. Topics Covered: Intro: Energy/ power, control and transmission of power, electricity, electronics, mechanical engineering. Major Course Projects: small engines, house wiring, and electronic labs, basic Soldering, alternative energy.

**Course: Construction Technology**

Grade Level: 10-12

Length of Class: semester

**Course Description:** In Construction Technology, students will explore the many skills, materials, methods, and processes necessary to provide them with career awareness for the construction industry. Topics Covered: construction technology, the technology of construction management, the technology of construction personnel, the technology of construction materials and products, the technology of construction processes and production. Major Course Projects: construct a utility shed, deck, or other class construction project.

**Course: Architectural Drafting Technology**

Grade Level: 10-12

Length of Class: semester

**Course Description:** This course teaches the fundamentals of architectural drafting. Students will learn basic drafting practices, which will evolve into designing several houses. Students will learn to use traditional

drafting equipment and computer aided drafting programs. This course will cover building design, detail drawing, basic construction theory and overall design aesthetics.

**Course: Manufacturing Technology**

Grade Level: 10-12

Length of Class: semester

**Course Description:** In this course students will learn about the world of manufacturing. Course work will include units: Safety, Measurement -Precision Measurement techniques, Manufacturing Project, QC, JIT manufacturing, PLC, Pro E, CNC programming  
Mold making, casting plastic forming, and the Text Units - Materials, Primary and secondary processes, Design and engineering,  
Major course project is Students will design, manufacture and sell a product - approved by the instructor

**PHYSICAL EDUCATION/HEALTH**

**Course: Foundations of Personal Fitness/Driver Education 9**

Grade Level: 9

Length of Class: Year

Prerequisite: None

**Course Description:** This yearlong course is comprised of 30 hours of classroom instruction in Driver Education and PE Foundations of Fitness. Students will meet everyday throughout the year. The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The concept of wellness, or striving to reach optimal levels of health, is the cornerstone of the course and is exemplified by students designing their own personal fitness program.

**Course: FITNESS FOR LIFE**

Grade Level: 10

Length of Class: Semester

Prerequisite: none

**Course Description:** This course will provide the opportunity to develop and maintain fitness for a lifetime of wellness. Fitness concepts and components will be emphasized as the student participates in a wide variety of physical activities, including fitness assessment and evaluation, individual sports, team sports, and other activities. Students will learn to use the Physical Activity Pyramid, heart monitors and other tools to develop and maintain fitness levels that will keep them physically fit for a lifetime.

**Course: 10<sup>th</sup> Health Education**

Grade Level: 10

Length of Class: Semester

Prerequisite: none

**Course Description:** Tenth grade health education combines scientifically accurate, age-appropriate health content with extensive instruction, practice, and application of the skills necessary to achieve optimal health and wellness. In addition to accurate health content and health-skill practice, high school students are given additional opportunities to apply their knowledge and skills to real-world situations. Class meets every other day opposite physical education.

**Course: Individual/Dual Sports**

Grade Level: 11-12

Length of Class: Semester

Prerequisite: None

**Course Description:** Course provides knowledge, experience and opportunity to develop skills in more than one sport; such as tennis, golf, badminton, jogging/running, racquetball and other individual and team sports.

**Course: Recreational Sports**

Grade Level: 11-12

Length of Class: semester

Prerequisite: None

**Course Description:** Course provides knowledge, experience, and opportunity to develop skills in more than one activity such as Frisbee, wall climbing, bocce ball, fishing, hiking, cycling or other recreational sports or outdoor pursuits.

**Course: Fitness/Conditioning Activities**

Grade Level: 11-12

Length of Class: semester

Prerequisite: None

**Course Description:** Course emphasize conditioning activities that will help develop muscular strength, flexibility and cardiovascular fitness.

**Course: Weight Training**

Grade Level: 11-12

Length of Class: semester

Prerequisite: None

**Course Description:** Courses develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning: they may include anatomy and conditioning.

**ART**

**Course: Art Studio 1: Drawing and Painting**

Grade Level: 10-12

Year or Sem: Semester

Prerequisite: None

**Course Description:** Studio 1 is offered to high school students grades 10 to 12. The first 9 weeks will emphasize drawing using multiple drawing media, the second will emphasize color media. Students will learn art and design terminology, develop a personal approach to the evaluation of art quality, and begin to understand the connection of art and culture. These goals are integrated within classroom assignments.

**Course: Art Studio 2: 3**

**Dimensional Design & Inquiry**

Grade Level: 10-12

Year or Sem: Semester

Prerequisite: None

**Course Description:** Studio 2 will offer 3 dimensional designs (sculpture) followed by 9 weeks of a personal inquiry in which students explore media and themes of choice. Students will also collaborate in the creation of an art installation/ environment. This group work will be complimented by work on an individual artistic series. Critical self-assessment will be encouraged through the creation an artist's statement. Art and culture will be integrated into classroom assignments.

### FOREIGN LANGUAGE

**Course: Spanish I**

Grade Level: 10

Year or Sem: Year

Prerequisite: None

**Course Description:** Spanish One is the beginning level of a series of three classes. In Spanish One we explore Hispanic history, art, and language through hands on projects and verbal presentations. The program also uses reading immersion, as a means to placing vocabulary in context to improve comprehension, which many times, is the focus of college placement exams.

**Course: Spanish II**

Grade Level: 11

Year or Sem: Year

Prerequisite: Spanish I

**Course Description:** Spanish Two is the second level in a series of three classes. As a continuation of Spanish One, Spanish Two places more emphasis on higher - level concepts and vocabulary. The reading level is increased and further grammatical analysis is achieved through viewing situations in context such as different

tenses and object and reflexive pronoun usage. There is also an extensive unit on travel with emphasis on Mexico. The focus of this unit may change depending on the country the students may be traveling to in each given year.

**Course: Spanish III**

Grade Level: 12

Year or Sem: Year

Prerequisite: Spanish II

**Course Description:** Spanish Three is the highest level in a series of three classes. In Spanish Three students focus on the concepts, cultural elements, and historic backgrounds concerned with Hispanic life. As in Spanish Two, composition and oral presentation are used to evaluate progress. Students take part in traditional meals and are involved in field trips related to the subject.

### MUSIC

**Course: Concert Band**

Grade Level: 9-12

Length of Class: Year

Prerequisite: Permission by Director

**Course Description:** Students will review the elements of music previously learned as well as gain new knowledge of music theory and history. Band members will study a variety of styles from different eras and prepare for performances, which are the main focus of this class. A varied number of performances will be required throughout the duration of the class including marching in both homecoming parade and halftime performance at homecoming football game. Students will participate in large group contest and encouraged to participate in solo/ensemble festival in the spring. Private/group lessons are required.

Successful completion of two years of Concert Band meets the Wheaton High School graduation requirement for the arts.

**Course: Concert Choir**

Grade Level: 9-12

Length of Class: Year

Prerequisite: Permission by Director

**Course Description:** This group sings two concerts a year focusing on the music elements while singing SAB/SATB music. These students attend large group choir contest each year and students have the opportunity to participate in solos and ensembles contest. Two years participation will meet the arts part of the Wheaton graduation requirements.

