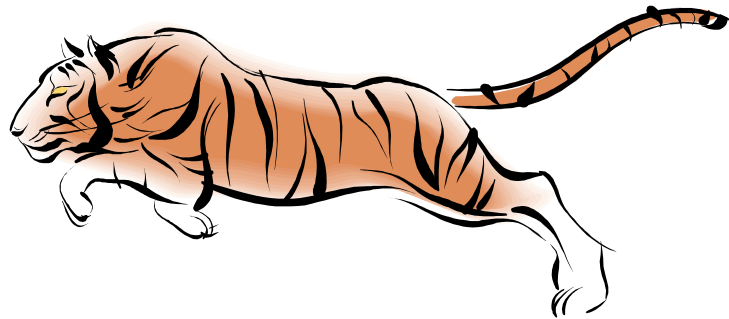


WILLIAMSON **H**IGH **S**CHOOL

Academic Excellence!



Marauder Pride!

COURSE DESCRIPTION HANDBOOK **2007 – 08**

"The only place you will find success before work is in the dictionary..."

May B. Smith

Mission:

To provide an effective, high-quality learning experience, every day, for every student, with the goal of preparing students to be successful at each level and to be contributing members of society.

Vision:

Active learning in a supportive & respectful environment.

INTRODUCTION

This course guide is designed to provide you with an overview of courses of study at Williamson Senior High School.

Choosing a high school program and selecting courses should be a cooperative effort between students, parents, and the school. As you make course selections, think of your high school program as an opportunity to become a well-rounded individual. It is an opportunity to develop skills and knowledge that are useful and needed to pursue post-secondary plans. It is also an opportunity to explore and try out new experiences. Your success, both academically and personally, is a common goal for everyone. If we can be of assistance, please let us know.

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Minimum Graduation Requirements for Students Entering Grade 9 in 2001 and Thereafter

Required Core Subjects	Local or Regents Diploma	Advanced Regents Diploma
English	4 units	4 units
Social Studies	4 units	4 units
Math	3 units	3 units
Science	3 units	3 units
Foreign Language	1 unit	3 units
Health	.5 units	.5 units
Art/Music	1 unit	1 unit
Physical Education	2 units	2 units
Electives	3.5 units	1.5 units
TOTALS	22 units	22 units

Required Assessments for students who entered grade 9 in September of 2004:

Local Diploma (minimum score of 55-64)	Regents Diploma (minimum score of 65)	Advanced Regents (minimum score of 65)
English	English	English
Global Studies	Global Studies	Global Studies
U.S. History	U.S. History	U.S. History
Math A	Math A	Math A
Science	Science	Math B
		Science (2)
		Foreign Language

Required Assessments for students who enter grade 9 in September of 2005 or after:

Regents Diploma (minimum score of 65)	Advanced Regents (minimum score of 65)
English	English
Global Studies	Global Studies
U.S. History	U.S. History
Math A	Math A
Science	Math B
	Science (2)
	Foreign Language

Regency Competency Tests in Math, Reading, Writing, Global Studies, U.S. History and Science will be available for Special Education students who score below 65 on Math A, Comprehensive English, US History, Global Studies and Science Regents Exams through August 2009.

Community Service Graduation Requirement

Each student, beginning with the class of 2007, must complete 20 hours of community service by February 15th of their graduation year.

Additional Scheduling Considerations

Requirements for Student Course Load

All students must take a minimum of 5-credits plus physical education each semester (minimum of 5.5-credits), and have no more than 2-periods of study hall or early dismissal (senior privilege) per semester. All students must earn 2-credits of physical education by graduation. However, students graduating in less than 4 years do not have to complete the 2-credit equivalent.

Grade Level Promotion

Grade level placement is determined by the number of credits that a student has earned. Grade level in grades 9-12 is based on the number of accumulated credits as follows:

10th grade	5 earned credits
11th grade	10 earned credits
12th grade	15 earned credits

Alternative Ways of Earning Credit

Eligible students have the option of earning up to 6½ credits without completing specific courses of study. This may be done as follows:

1. The student achieves 85% or better on state-developed (e.g. Regents exams, proficiency exams) or state-approved exams and passes an oral examination or completes a special project.
2. In the areas of science and occupational education, where credit is through examination, laboratory requirements will be met through special projects demonstrating appropriate skills.
3. Art and music credit may be earned through participation in a performing group or by participating in advanced, out-of-school art or music activity as approved by the local district.

Foreign Language Exemption

Students seeking an Advanced Regents diploma who pursue a five-unit sequence in art, music, business or BOCES may be exempted from the second language requirements. Students identified as having a learning disability may be exempt from the second language requirement for the Regents diploma if the student's IEP or 504 Plan states that the requirement is not appropriate.

College Level Courses offered at WHS

Williamson High School is proud to offer an assortment of college level classes. There are two different types of college level courses available, *Gemini* and *Advanced Placement (AP)*. There are many benefits to taking college courses during high school including:

- earning college credits at a reduced tuition or cost
- preparing for the necessary study habits and rigorous demands of college academics
 - enhancing college applications by demonstrating success in college level work
- potential benefits once at college, such as reducing a course load or creating time for students to explore their studies in depth, or in other areas

Gemini Courses

Courses designated as Gemini are college credit bearing courses offered at WHS through Finger Lakes Community College (FLCC.) The anticipated fee for these classes is \$120.00 (for a 3-credit course) and \$160.00 (for a 4-credit course.) Students are required to have an overall 80% Grade Point Average to enroll in a Gemini course. The following is a list of anticipated courses with the Gemini option for the 2007-08 school year:

<u>High School Title</u>	<u>High School Credits</u>	<u>College Title</u>	<u>College Credits</u>
English 12 Gemini	1	ENG 101: Freshman English	3
		ENG 102: Intro. to Literature	3
Physics Gemini	1	PHY 118: College Physics I	4
		PHY 119: College Physics II	4
U.S. History Gemini	1	HIS 110: U.S. History I	3
		HIS 111: U.S. History II	3
Economics Gemini	½	ECO 100: Survey of Economics	3
Sociology Gemini	½	SOC 100: Intro. To Sociology	3
Psychology Gemini	½	PSY 100: Intro. to Psychology	3
Pre-Calculus Gemini	1	MAT 152: Pre-Calculus	3
French 4 Gemini	1	FRN 201: French III	3
		FRN 202: French IV	3
Micro Computer Applications Gemini	½	CSC 134: Core Word	1
		CSC 135: Core Excel	1
		CSC 136: PowerPoint	1
Introduction to Programming Gemini	½	CSC 115: Intro. to Programming	3
Data Structures Gemini	½	CSC 190: Data Structures I	3

Advanced Placement Courses:

Courses designated as Advanced Placement are college credit bearing courses offered at WHS through a cooperative educational endeavor between secondary schools and colleges and universities through the College Board. Advanced Placement has provided motivated high school students with the opportunity to take college-level courses in a high school setting. Students who participate in the AP Program not only gain college-level skills, but in many cases they also earn college credit while they are still in high school. Students are required to take the designated AP Examination for the course they are enrolled in. The cost of the AP Examination is approximately \$80.00 per exam. Scores on the AP Examination range from 1 – 5. Each college individually reviews AP Examination scores and determines the amount of college credit they will award for a course. The following is a list of anticipated Advanced Placement courses for the 2007-08 school year:

AP European History
AP Calculus AB
AP English Language and Composition
AP Biology
AP Chemistry
AP Statistic (On-line)

Weighted Grading

The primary purpose of the introduction of a weighted grading system is to encourage students to take more challenging courses such as Accelerated, AP and Gemini classes.

Which courses will be weighted?

Courses that are weighted present a different and more challenging level of content and amount of material covered than typical classes. The following courses will be weighted:

- Grade 6 Accelerated Reading, Grade 7 Accelerated English Language Arts and Grade 7 Accelerated Math at the Middle School
- AP Classes
- Gemini Classes

Method for Weighting

A weight of 3% will be applied to qualified courses. The student's quarterly averages for weighted classes will be multiplied by 1.03 to determine the weighted average for each quarter,

Example

Class	Student Grade	Weighting	Grade
US History Regents	85	1.00	85.00
US History Gemini	85	1.03	87.55

COURSE DESCRIPTIONS

ENGLISH COURSE DESCRIPTIONS

ENGLISH 9

1 year - 1 credit

A mandatory course that builds on English skills previously taught in the areas of reading, writing, listening, and speaking. Regents level rigor and attention to detail are emphasized, as well as exploration of self and the world through various themes, units, genres, projects, and assessments, integration of technology, deep levels of analysis and synthesis, and academic integrity are essential.

ENGLISH 10

1 year - 1 credit

English 10 includes traditional study and practice in the areas of reading, writing, vocabulary and grammar. A minimum of eight novels will be read with a concentration placed on world literature in order to reinforce concepts learned in Global Studies 9 and 10. The class also focuses on writing proficiency in the context of the New York State English Language Arts requirements and Learning Standards. There is a strong emphasis on an in-depth analysis of literature through expository and research based writing. English 10 is a student-centered class that uses an individualized approach to the writing process in a writing workshop atmosphere.

ENGLISH 11 REGENTS

1 year - 1 credit

English 11 Regents focuses on American Literature including selections from classic and contemporary writers. Units of study include novels, drama, poetry, short stories and non-fiction. There is heavy emphasis on writing skills: recognition and analysis of literary elements, development of essays with solid and specific support, and overall sophistication and clarity of written work. Students take the New York State Regents English Language Assessment as a final examination and as a graduation requirement.

ENGLISH 12

1 year - 1 credit

This course includes the traditional elements of English 9, 10, & 11, but at an increased level of difficulty and expectation. Skills focus on college preparatory and careers. Midterm and final exams are required.

ENGLISH 12 GEMINI (ENG101/102)

1 year – 1 credit

First Semester (ENG101)

This college level course is designed to train students to write in the various modes that will be required by their other college courses. At the rate of approximately one essay per week, students will study descriptive, expository, narrative, argumentative, reporting, evaluative, reflective, and research writing. An 8 to 10 page research paper is required. The readings will be prescribed as models for study; they are generally short pieces from the anthology. No long works are used. Students undertake an extensive review of basic grammar and sentence structures, while learning to master new techniques in style and voice. Students should expect daily homework, weekly quizzes, and a fair amount of writing and revising. The course is designed for students who are willing to work hard, regardless of past performances in English classes. Summer reading is required.

Second Semester (ENG102)

Students will study all genres of literature: the novel, short stories, poetry, and plays. Prerequisite skills include outlining, writing a thesis statement, proving support, and correct grammar/punctuation usage. Therefore, more emphasis is placed upon how to analyze and interpret literature. A 6-8 page research paper based upon the literature read is required. Students should expect daily reading homework, weekly quizzes, frequent short writing assignments, and approximately one essay every two weeks. The course is designed for students who are willing to work hard, regardless of past performances in English classes.

ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION

1 year – 1 credit

Prerequisite(s): Successful completion of English 11 (Regents)

Advanced Placement English Literature and Composition can be taken in place of English 12. The Advanced Placement English Literature and Composition course engages students in the careful reading and critical analysis of literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Emphasis is placed on classical Literature. Students will write short papers on the literature they read. Summer reading and the AP Literature and Composition Exam are required. College credit can be granted if the student succeeds on the AP Exam and the student's college accepts AP credit. This course will be offered in alternate years.

**ADVANCED PLACEMENT ENGLISH
LANGUAGE & COMPOSITION**

1 year – 1 credit

Prerequisite(s): Successful completion of English 11 (Regents)

Advanced Placement English Language and Composition can be taken in place of English 12. The AP English Language and Composition course engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to the effectiveness in writing. This course emphasizes expository, analytical, and argumentative writing that forms the basis of academic and professional communication, as well as the personal and reflective writing that fosters the development of writing facility in any context. In addition, this composition course teaches students that the expository, analytical, and argumentative writing they must do in college is based on reading, not solely on personal experience and observation. Summer reading and the AP Language and Composition Exam are required. College credit can be granted if the student succeeds on the AP Exam and the student's college accepts AP credit. This course will be offered in alternate years.

FILM STUDIES

½ year – ½ credit

Students will learn about the technical and historical elements of film. Additional topics include a variety of film genres (silent, western film noir, etc.) and the role of film in society. Students will be viewing, critiquing, and writing throughout the 20-week course. Each student will study a famous director and write a research paper on that director. Students will keep a film log, do some role-playing and group work. Viewing films outside of class will be expected. Students will not be making films.

BEST SELLER FICTION

½ year – ½ credit

In this class, students will determine what makes a best seller a "best seller". First and foremost students should enjoy reading; a considerable amount of outside reading is required. Students will use bestseller lists, compiling data on a weekly basis. The variety reading selections range from the 1970s to present. A total of five books will be read and discussed, culminating in a student book of choice from the current bestseller list. Journaling, essays, group work and projects are required.

AIS READING/WRITING LAB

Non - Credit

The Reading Lab is offered to those students who are experiencing academic difficulty or failure due to poor reading skills. In the lab, students receive individual instruction on comprehension or vocabulary skills that will allow them to be more successful in the content areas. Materials from content areas classes are used for instruction.

AIS ENGLISH LAB

Non - Credit

AIS English Lab is designed to be an extension of the regular English 11 course. Class meets every other day to reinforce and provide further practice for skills taught in English 11. Emphasis is placed on the development of writing skills. All four parts of the Comprehensive English Regents Examination are explored in detail and practiced repeatedly to prepare students for the June exam.

SOCIAL STUDIES COURSE DESCRIPTIONS

GLOBAL STUDIES

Grade 9

1 year - 1 credit

Grade 10

1 year - 1 credit

Global Studies is a two-year course of study culminating in a Regents Examination at the end of 10th grade. The course is an examination of the chain of events that affected the peoples of different cultures and times. Students will develop an awareness of past human experience. It is through the study of this human experience that a student becomes aware of the struggles that free societies have endured over the years. Reflection on past experiences is the only realistic guide to the present and the future.

The course provides the students with the tools and methods they need to analyze vast amounts of detail. These tools include historical interpretation, geographic awareness, economic assessment and political analysis.

The course is divided into two halves. The first half (grade 9) covers human development from the Stone Age up through the French Revolution. The second half of the course (grade 10) begins after the French Revolution and continues to modern day.

AIS GLOBAL PREPARATION

Non - Credit

AIS Global Preparation is designed to be an extension of the regular Global Studies 10 classroom. Preparation classes meet every other day for 40 minutes. They provide a time for reinforcement and further exploration of the lesson topics taught in the daily social studies classroom. In addition, students are prepared for the state Regents examination in Global History and Geography needed for high school graduation.

AP EUROPEAN HISTORY**1 year – 1 credit****Prerequisite(s): Global History 9**

The AP European History course is a chronological history of Europe from the Renaissance to the present and is the equivalent of two college semesters of European history. It is divided into three main areas: politics and government, society and economy, and religion and culture. The course traces the development of the monarch, absolutism, democracy, and communism in European nations. It also covers the religious developments and conflicts through the past five centuries. Taking the AP examination is a requirement (fee required). The Global History and Geography Regents examination must still be completed at the end of the tenth grade, which includes information from Global History 9.

U.S. HISTORY & GOVERNMENT**1 year - 1 credit**

This course is a chronological study of American History with a major theme of recognizing and studying basic Constitutional issues and the application of Constitutional principles to both historical and contemporary life. Units include: Constitutional Foundations for the United States Democratic Republic, Industrialization of U.S. Prosperity, Depression and War 1917 -1940, U.S. in an Age of Global Crisis, A World in Uncertain Times - 1950 - present, and Looking Backward. The U.S. History and Government Regents exam is given at the end of the year.

U.S. HISTORY GEMINI (HIS 110/111)**1 year - 1 credit**

This college level course is a study of the foundation of American History with emphasis on political, economic, social, and intellectual ideas from its settlement through 1877.

United States History I: This is a study of the foundation of American History with emphasis on political, economic, social, and intellectual ideas from settlement through 1877. (1st Semester)

United States History II: This is a study of American History with emphasis on political, economic, social, and intellectual ideas from 1877 through today. (2nd Semester)

The United States History & Government Regents Exam is given at the end of the year.

AIS U.S. HISTORY PREPARATION**Non - Credit**

AIS U.S. History Preparation is designed to be an extension of the regular U.S. History classroom. Preparation classes meet every other day for 40 minutes. They provide a time for reinforcement and further exploration of the lesson topics taught in the daily social studies classroom. In addition, students are prepared for the state Regents examination in United States History and Government needed for high school graduation.

SOCIAL STUDIES 12 (Economics or Economics Gemini and Public Policy are required)

ECONOMICS

½ year - ½ credit

This course of study is designed to effectively prepare a student to become a functioning citizen who can demonstrate the ability to make rational and informed decisions about economic choices confronting him/her, the society, and their increasingly interdependent world.

ECONOMICS GEMINI (ECO 100)

½ year - ½ credit

This college level course is a survey of economic theory. Students will study micro-economic issues such as supply and demand, economic decision-making, competition and its effects and pricing. Also, it will include a study of macroeconomic issues such as inflation, recession, pollution, money, fiscal and monetary policy.

PUBLIC POLICY

½ year - ½ credit

This course of study is designed to teach seniors how public policy is formulated and how citizens in a democratic society can become involved in the formulation and implementation of public policy at the local, state, and national level.

PERSONAL FINANCE

1 year - 1 credit

This course emphasizes the role of the consumer in the U.S. economic system. It will cover a variety of topics vital for functioning consumers and citizens, in our modern society. Topics include: The Employment Process, Preparing a Budget (including How to Make Major Purchases), How to Choose a Financial Institution and the Services They Offer, The Use/Misuse of Consumer Credit, Personal/Property/Social Insurances, The Preparation of Federal/State Income Tax Forms, How to Choose Housing, The Effect of Advertising on the Consumer, and A Highlight of Consumer.

SOCIOLOGY GEMINI (SOC 100)

½ year – ½ credit

Introduction to Sociology is a college level course. Sociology is the scientific study of human societies and human group behavior. Students will examine the many causes of social behavior, examine the dynamics of other cultures, and explore the relevance of sociology to their lives. Selected topics covered are culture, values, norms, ethnocentrism, socialization, social interaction, status, roles, deviance, conformity, the social institutions of family, religion and education, and global inequity and prejudice.

PSYCHOLOGY GEMINI (PSY 100)**½ year – ½ credit**

Introduction to Psychology is a college level course. Psychology is a study of human behavior and mental processes. Topics examined in this introductory course include the workings of the nervous system, perception, memory, learning, intelligence, personality, social attitudes, interaction between individuals in social settings, abnormal behavior; and ways of treating abnormal behavior. The course is designed to provide an overview of the theories and methods used by psychologists.

ANTHROPOLOGY (ON-LINE)**½ year – ½ credit****Prerequisite(s): Completion of online course survey****Open to 11th and 12th Grade Students**

In this interactive course offered via the Web, students become familiar with their own culture, and they are introduced to cultures from around the world and from different periods in history. The course uses five Roots of Culture: Family, Land, Death, Identity, and Power to explore the similarities and differences in cultural roles in various times and places. Basic computer skills are recommended. For 11th and 12th grade student(s).

MATHEMATICS COURSE DESCRIPTIONS

All students at WHS are required to successfully complete three units of math for high school graduation. The Math Department strongly recommends that students take a complete four year program including the completion of Math B. All Regents level courses require a final written Regents Examination.

Recommended Math Sequence

Math A
 Math A/B
 Math B
 Pre-Calculus or Pre-Calculus Gemini

Alternative Math Sequence

Applied Math I
 Applied Math II
 Math B Extended 1, 2
 Math B Extended 3, 4

Elective Courses in Math

Advanced Placement Statistics (Online)
 Advanced Placement Calculus AB

Recommended math sequence starting with incoming 9th grade 2007-2008

All students at WHS are required to successfully complete three units of math for high school graduation. The Math Department strongly recommends that students take a complete four year program. All Regents level courses require a final written Regents Examination.

Recommended Math Sequence

Integrated Algebra
Geometry
Algebra 2 and Trigonometry
Pre-Calculus or Pre-Calculus Gemini

Alternative Math Sequence

Integrated Algebra Extended
Geometry Extended
Algebra 2 and Trigonometry

Elective Courses in Math

Advanced Placement Statistics (Online)
Advanced Placement Calculus AB

INTEGRATED ALGEBRA

1 year - 1 credit

Integrated Algebra represents the beginning of the new NYS sequence for mathematics. Topics include solving equations, operations with polynomials, algebraic fractions, ratio and proportion, probability, statistics, graphing equations, operations with radicals, quadratic equations, solving linear inequalities, and trigonometry of the right triangle. The NYS Integrated Algebra Regents is the final examination for this course.

INTEGRATED ALGEBRA EXTENDED

1 year – 1 ½ credit

This course is designed for the student who would benefit from additional time for skill development in preparation for the NYS Integrated Algebra Regents Examination. Students who received scores of 1 or 2 on the Math 8 Math Regents may be recommended to be in this course. Students in Integrated Algebra Extended will have one period of Integrated Algebra Extended class every day and two periods of Integrated Algebra Extended every other day. Topics include solving equations, operations with polynomials, algebraic fractions, ratio and proportion, probability, statistics, graphing equations, operations with radicals, quadratic equations, solving linear inequalities, and trigonometry of the right triangle. The NYS Integrated Algebra Regents is the final examination for this course.

APPLIED MATH II

1 year - 1 credit

This class is a continuation of the slower paced Math A sequence. Units include Probability, Geometry, Word Problems, Trigonometry, Circles, and Parabolas. The Math A Regents exam will be taken in June at the end of Applied Math 2. Successful completion of this course will prepare students for Math B extended, Accounting, or Math/Science/Technology to achieve the required third math credit.

MATH A/B**1 year - 1 credit**

This course is a continuation of MATH A. It further develops the topics introduced in MATH A, and introduces new topics such as formal Euclidean geometry, mathematical systems, quadratic equations, analytic geometry, trigonometry and locus. The Math A Regents Exam will be taken in January. The final exam in June will be teacher made. Successful completion of this course will prepare students for MATH B.

MATH B**1 year – 1 credit**

This course is a continuation of MATH A and MATH A/B. It further develops previously studied topics, and introduces new ones in preparation for the Math B Regents Exam. Course work includes polynomial and rational expressions, complex numbers, and geometry of the circle, transformations, exponential and logarithmic functions, trigonometric functions, probability, statistics with standard deviation, and the binomial theorem. The Math B Regents Exam will be taken in June.

MATH B EXTENDED 1,2**1 year – 1 credit**

This course is designed for students who failed the second semester in Math A/B or for students who received credit for Applied II and would like to continue their math career. This course is a continuation of Math A and Math A/B. It further develops previously studied topics, and introduces new topics in preparation for the Math B Regents exam. Units include Geometric Proofs and Circles, Algebraic and Graphical Representations, Transformations, Functions, and Growth.

MATH B EXTENDED 3,4**1 year – 1 credit**

This course is a continuation of Math B Extended 1,2. It further develops previously studied topics, and introduces new ones in preparation for the Math B Regents Exam. Course work includes exponential and logarithmic functions, trigonometric functions, probability, statistics with standard deviation, and the binomial theorem. The Math B Regents Exam will be taken in June.

PRE-CALCULUS**1 year – 1 credit**

This fourth year of mathematics is a one-year course that prepares students for the study of calculus. Topics include: equations and inequalities, functions and their graphs, exponential and logarithmic functions, trigonometry, rational functions and conics, and an introduction to limits.

PRE-CALCULUS GEMINI (MAT 152)**1 year – 1 credit**

This college level course prepares students for the study of calculus. The theme of the course is the extensive study of functions: modeling change, linear, notation, exponential, logarithmic, transformational, trigonometric, and compositional. Eleventh grade students will be prepared for the study of AP Calculus.

ADVANCED PLACEMENT STATISTICS**1 year – 1 credit****Pre-requisite(s): Pre-Calculus and completion of online course survey**

Students will be required to attend one class session in late August to create their on-line account and begin the class.

The purpose of the course in AP Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes.

1. Exploring data: Describing patterns and departures from patterns
2. Sampling and Experimentation: Planning and conducting a study
3. Anticipating Patterns: Exploring random phenomena using probability and simulation
4. Statistical Inference: Estimating population parameters and testing hypotheses

Taking the AP examination is also a requirement (fee required). Students who successfully complete the course and examination may receive college credit.

ADVANCED PLACEMENT CALCULUS AB**1 year – 1 credit**

AP Calculus AB is the fifth year of mathematics and is a one-year course on the differential and integral calculus of the functions of one variable. This calculus course covers functions and graphs; limits and continuity; derivatives; applications of derivatives; antiderivatives & definite integrals; applications of integrals; and sequences, series, and polynomial approximations. The AP Calculus AB Exam is required. College credit can be granted if the student succeeds on the AP Exam and the student's college accepts AP credit.

SCIENCE COURSE DESCRIPTIONS

All students at WHS are required to successfully complete three units of science for high school graduation. The Science Department strongly recommends that students take a complete program including Earth Science, Living Environment, Chemistry, and Physics. All Regents level courses require successful completion of written laboratory reports and a final written Regents Examination.

Recommended 4-credit Science Sequence

The Living Environment

Physical Setting: Earth Science

Physical Setting: Chemistry

Physical Setting: Physics with Gemini Option

Elective Courses in Sequence

Environmental Science

Advanced Placement in Biology

Advanced Placement in Chemistry

LIVING ENVIRONMENT

1 year - 1 credit

This course is designed to provide a broad, general understanding of the fundamental principles of Biology. Labs are used to strongly support lecture material and to give students "hands-on" experience. Topics include: Human Physiology, Genetics, Living Things, Reproduction and Development. A Living Environment Regents Examination is administered in June.

EARTH SCIENCE

1 year - 1 credit

Earth Science introduces the student to the study of the composition, structure and processes of the earth, its geologic history and its place in the universe. The four branches of Earth Science studied are geology, meteorology, oceanography and astronomy. A separate lab period is required. Students will take the Earth Science Regents Exam which consists of a written exam, and a lab performance test given in lab class.

ENVIRONMENTAL SCIENCE

1 year – 1 credit

Prerequisite(s): Living Environment and Earth Science

Environmental Science is a multidisciplinary field that draws from ecology, biology, chemistry, and geology, as well as other fields to better help students understand the relationship between humans and the environment. The student of living environment focuses on three main areas: conservation and protection of resources, environmental education and communication, and environmental research. The units of student and the following: Ecology, Populations, Water, Air and Land, Mineral and Energy Resources and Health and Our Future.

This course is for students who need a required third year of science. The goals of this course are to enhance students' scientific thinking skills and meet all science requirements to earn a Regents Diploma. **This course is not designed for college bound students.** Recommendation to this course is made by a thorough review of the student's standardized testing data, science course grades and teacher observations. **Placement into this course is made by the student's counselor, science department chairperson, and principal, prior to the start of the school year.**

CHEMISTRY

1 year – 1 credit

Prerequisite: Math A

This course is designed to prepare students for a college level science course. It is based on the New York State Syllabus, which covers the broad range of general chemistry. The course is designed to develop a problem solving method using the information taught throughout the year. The course also contains a weekly lab requirement.

PHYSICS GEMINI (PHY 118/119)

1 year – 1 credit

Prerequisite: Successful completion of the Math A Regents Examination

This college level course is a non-calculus course with a laboratory component. Topics include vectors, motion in two dimensions, force laws, conservation principles and thermodynamics, oscillations, sound, light, optics, electricity, and magnetism. The Regents Examination in Physical Setting/Physics is required at the end of the year.

ADVANCED PLACEMENT CHEMISTRY

1 year – 1 credit

AP Chemistry is an introductory college level chemistry course. It goes beyond the basics of Regents Chemistry to a broader and more in depth study of chemistry. AP Chemistry is excellent preparation for students planning on a career in sciences or engineering related fields.

Students must have a good knowledge of both chemistry and algebra and the desire to work hard. This course provides students with the conceptual framework, knowledge, and analytical skills necessary to deal critically with the science of chemistry. Both short and long term laboratory investigations are an integral part of the curriculum. The AP Chemistry topic outline includes: atomic theory, quantum mechanics, atomic and molecular structures, chemical bonding, kinetics, thermodynamics, equilibrium, solution chemistry, periodicity, and the laws for phases of matter. The AP Chemistry Exam is required. College credit can be granted if the student succeeds on the AP Exam and the student's college accepts AP credit

ADVANCED PLACEMENT BIOLOGY

1 year – 1 credit

AP Biology is an introductory college level biology course and is designed to be taken after the successful completion of Regents Living Environment and Regents Chemistry classes.

Students will be provided with the conceptual framework, factual knowledge and analytical skills necessary to deal critically with the rapidly changing science of biology. Both short and long-term laboratory investigations are an integral part of the curriculum. The AP Biology topic outline includes: cell structure and function, biochemistry, molecular genetics, heredity, evolution, microbiology, botany, zoology, anatomy and physiology, and ecology. The AP Biology Exam is required. College credit can be granted if the student succeeds on the AP Exam and the student's college accepts AP credit.

OCEANOGRAPHY (ON-LINE)

½ year – ½ credit

Prerequisite(s): Completion of online course survey

Open to 11th and 12th Grade Students

In this introductory laboratory course, students construct an applied knowledge of the characteristics of aquatic systems. Students study ocean structure and marine ecology through hands-on exploration of coastal waters, open ocean waters, deep ocean waters, coral reefs, kelp forests, deep ocean vents, and tide pools. Through guided practice of the scientific model and with household instruments, the student conducts a field study of a local aquatic system for the final project. After completing this course, the student will understand and investigate human interactions with aquatic systems, the influence of technology of aquatic systems, and the physical, biological, chemical, and temporal components that interact in various aquatic systems; students will also understand and investigate scientific thinking and processes through conducting a field study, formulating and revising scientific explanations, and communicating and defending a scientific argument. For 11th and 12th grade students.

LANGUAGES OTHER THAN ENGLISH COURSE DESCRIPTIONS

FRENCH I

1 year - 1 credit

French 1 is an introduction to the French language. Students will develop the basic skills of listening, speaking, reading and writing. There is an emphasis on everyday vocabulary and basic sentence structure. Students will have the opportunity to learn about the cultures of French speaking people throughout the world. Topics covered will include personal identification, family life, community/neighborhood, meal taking (food and drink), health, leisure, shopping, travel and current events.

FRENCH 2

1 year - 1 credit

French 2 is the continuation of the study begun in French 1. Emphasis is again on the spoken language and on meaning and communication. There will be continued study of grammatical structures and vocabulary with more of an emphasis on written communication. Students will learn to communicate in the past, present and future tenses. Topics include not only a review and broadening of those from French 1, but also house and home, services, animals, education, earning a living, and celebrations and holidays.

FRENCH 3

1 year - 1 credit

French 3 presents a continued emphasis on spoken language and communication. Concepts are reviewed to help students gain proficiency in French. Students will learn more advanced grammatical structures. Further study of France and other French speaking areas will provide additional reading and speaking practice. Students take the Comprehensive French Regents exam at the end of French 3.

FRENCH 4 GEMINI (FRN 201/202)

1 year - 1 credit

This college level course includes a continued emphasis on reading and writing. Students will also be encouraged to continue improvement of spoken French and develop a fluency of the language. Students will read short stories, and magazine articles. Videotapes and films will also provide students opportunities for communication and understanding French culture. Topics to be covered include travel, communication, family and values, environment, identity, business interactions, and social interactions, and the media.

SPANISH 1

1 year - 1 credit

Spanish 1 is an introduction to the Spanish language. The emphasis of the first part of the course will be communication (listening, speaking). As the course continues, reading and writing will be integrated. Students will learn about a variety of Spanish speaking cultures. Topics included are likes/dislikes, feelings, school life, foods, going places, entertainment, vacation and travel, looking good, choosing a career, hobbies and health to name just a few.

SPANISH 2**1 year - 1 credit**

This course is a continuation of Spanish 1. There is a continued emphasis on communication, as well as reading and writing. Some of the topics discussed are pastimes, traveling, restaurants, hotel stays, the post office, shopping, stores, city life, the home, culture in Latin America, and fiestas.

SPANISH 3**1 year - 1 credit**

Spanish 3 is a continuation of Spanish 2. Students continue to develop written and oral communication skills. Some of the topics studied include travel, Spanish culture, dating customs, hotel (lodging), and health matters. There is a Regents exam at the end of Spanish 3. In all of the Spanish classes there will be projects, use of computers, tapes, films, music, magazines, games, skits, etc.

SPANISH 4-5**1 year - 1 credit**

This Spanish course will allow students to apply what they have learned in greater depth. The course will include conversations, debates, the reading of some of the classical literature (novels, plays, short stories), projects, cooking and oral demonstrations. Emphasis will be given to oral and written expression.

BUSINESS COURSE DESCRIPTIONS**CAREERS FOR THE 21ST CENTURY****½ year - ½ credit**

This course introduces the student to the world of business and helps prepare them for the roles of consumer, worker, and citizen. During the course, students will have the opportunity to explore their interests and abilities in relation to future career choices. The course will assist students with consumer decision making, prepare them for future employment and help the students effectively perform their responsibilities as a citizen. It will also provide students the opportunity to acquire basic transferable skills.

BUSINESS TECHNOLOGY FOR THE 21ST CENTURY**½ year – ½ credit**

This course will introduce students to computer technologies that are used in today's workplace as well as emerging technologies of the future. Business Technologies is a course designed to develop the skills necessary to succeed in today's workplace. Students will learn proper office procedures/behaviors, basic computer use, word processing and the use of spreadsheets. Other technologies such as copiers, scanners, and PDA's will be introduced.

KEYBOARDING**½ year – ½ credit**

This course is designed to develop alphabetic as well as numeric keyboarding skills needed for both occupational and personal use. Modules include learning the computer keyboard, business and personal letters, tables, term papers, outlines, and other forms.

BUSINESS COMMUNICATIONS**½ year – ½ credit**

This class is a comprehensive introduction to the theory and practice of basic business communication skills. Emphasis is placed on the process of communication and on typical forms of business communication such as business reports, business letters, speeches, and resumes.

ACCOUNTING**1 year - 1 credit**

This full-year course is designed to develop occupational competencies in accounting. The content includes the entire accounting cycle and provides the students with an understanding of double-entry accounting. In addition, the student is introduced to applications of manual accounting systems as well as computerized systems. Simulations using actual business papers will be used. This course can count for the third year of math requirement.

SPORTS MARKETING AND MANAGEMENT**1 year - 1 credit**

Sports Marketing and Management is a 1-unit course that introduces students to the important role that marketing plays in our economic system. Content revolves around the basic marketing functions of financing, risk management, selling, promotion, pricing, purchasing, marketing information management, product/service/idea planning and distribution. Although students are given the opportunity to refine entry-level employment skills, the course focuses on more advanced career-sustaining skills associated with employment in various marketing sub-systems. The course will tie into the school store, which lends itself on first-hand experience. This course will be offered on alternate years.

BUSINESS/CRIMINAL LAW**1 year - 1 credit**

Business/Criminal Law is a full-year course that emphasizes the individual as he/she encounters business law in his/her personal, family and occupational life. From the study of business law, students should gain a genuine respect and intelligent application for a segment of the law that affects them both at home and at work. Modules covered include: the legal environment, contracts, bailments, real property, insurance, financial transfers, employment and agency relationships, and business ownership. This course will be offered in alternate years.

SCHOOL TO WORK

Credit Variable

School to work is a “hands-on” program where juniors and seniors are placed in an internship in a field that they think they might want to pursue after high school. Students learn the daily responsibilities and duties of the profession or vocation they hope to pursue from first hand experience. Students are expected to keep a daily journal of their experiences, along with a time sheet, which tracks their hours. For each 150 hours a student spends at his or her internship, they earn ½ credit. Students also spend time in the classroom researching career opportunities, learning how to complete job applications, cover letters, resumes, and how to interview.

TECHNOLOGY COURSE DESCRIPTIONS

DESIGN AND DRAWING FOR PRODUCTION (DDP)

1 year – 1 credit

No prerequisites

This course may be taken by any student to satisfy the high school Art/Music requirement for Regents or Non-Regents diplomas. This course intends to provide opportunities in drawing and design through creative thinking, decision-making, and problem solving experiences.

Students will be given problems and their ramifications throughout the course and attempt to present a solution to each problem through concepts of design and drawing. This will enable students to analyze, creatively design, and critically evaluate the problems. The course requires research in historical precedents, cultural references and future vision.

This type of approach to drawing is the vehicle for industrial communication and a step toward the process of product design and production. This approach is the exact method which industrial, architectural and engineering firms use to handle their problems. This course emphasizes the decision-making process by requiring students to examine past solutions, to learn technical drawing processes and be able to evaluate work of their own and others.

COMPUTER AIDED DESIGN (CAD)

½ year – ½ credit

Prerequisite - DDP

This course is designed to expose students to systems used for Computer Aided Drawings. They will learn how computer aided drawing has affected industry and the importance its impact on the future of industry and its relation to changes in career opportunities.

Students will be able to get "hands on" experience with CAD by doing several drawings with the computer. Anyone interested in the latest tools and techniques used in industry to express ideas and relate information should consider taking this course.

ARCHITECTURAL DRAWING I**½ year – ½ credit****Prerequisite: DDP**

Architectural Drawing is an introductory course in residential structures and design offered to any student who has successfully completed DDP. Students will design a residential structure and use the skills and knowledge they acquired from DDP to complete the following drawings of their design: a site plan, a floor plan, a section and an elevation. Architectural Drawing standards and standards for residential construction will be covered in this course. Other areas such as: careers related to architecture, designs in architecture, aesthetics and design in layout and construction will be discussed. Any student who is interested in entering a career in construction, design, or architecture is strongly recommended to take this course.

ARCHITECTURAL DRAWING II**½ year – ½ credit****Prerequisites: Architectural Drawing I**

This course is an extension of Architectural Drawing I. Students will study electrical wiring, plumbing, and heating systems used for residential structures. They will design the utilities systems for a residential structure using the national codes as a guideline. This course will also cover areas of interior design and room layout. One and two-point perspective drawing will be utilized to express the students' ideas. Any students interested in expanding their knowledge of the building trades and residential design should take this course.

INTEGRATED MATH, SCIENCE, TECHNOLOGY (MST)**1 year - 1 credit**

This course is designed for juniors and seniors and may be used to fulfill their third Math or third Science requirement for graduation or as an elective in Technology.

This course is an applied course in math and science. Students will be assigned activities or problems related to "real life activities" and asked to solve these problems using math skills and the scientific process. Most of the problems will require constructing and testing of the students' solutions to the problems that are assigned.

This course uses a "hands on" approach to science, math and technology by utilizing knowledge from all three areas to pose questions, seek answers, and develop solutions to problems given to them by instructors.

TELEVISION AND VIDEO PRODUCTION I

½ year – ½ credit

Prerequisite(s): None

This newly designed course allows students “hands on” opportunities to develop, learn and use the basic concepts of video photography, editing, scripting, and production techniques in a “studio setting”. Students will gain knowledge in the theory of production which includes: the history of television, laws, regulations and ethics, the production process, camera operation, lenses, picture composition, lighting, editing, special effects, and sound. Students will learn how to use Windows Movie Maker to edit their class projects. Project assignments could include: an assortment of video projects, live broadcasts of sporting events, school plays and concerts, morning/afternoon announcements which could include “on location” reporting. This action packed course will allow students to operate handheld camcorders, professional S-video cameras, mixers, editing machines and control boards.

TELEVISION AND VIDEO PRODUCTION II

½ year – ½ credit

Prerequisite(s): Television and Video Production I

This course will build upon and expand the concepts and skills learned in Television and Video Production I, including concepts of video photography, editing, scripting, and production techniques.

MUSIC COURSE DESCRIPTIONS

A well-balanced school curriculum includes music, drama, painting poetry, sculpture, and architecture along with other important subjects such as mathematics, history and science. The objective of our high school music program is to continue the promotion and enjoyment of music presently and for later life, and to provide an opportunity for social and emotional growth as a member of a group in cooperative expression. Our major groups at Williamson are Concert Band, Marching Band, Concert Chorus, Jazz Band and many varied small vocal and instrumental ensembles. The student also has an opportunity to take class instrumental lesson, class voice lessons and Fundamentals of Music Theory.

FRESHMAN CHOIR

1 year – ½ credit

Weekly voice classes and concert participation required.

The freshman chorus is a training chorus into which all ninth grade chorus students are placed. Any freshman who has the desire to participate in the choral program is eligible to enroll. It is here that the expectations of the high school choral program are introduced and developed. As in the Senior Chorus, a variety of musical styles are experienced, along with the emphasis on effort, skills, and musicianship.

SENIOR CHORUS

1 year – ½ credit

Weekly voice class and concert participation required.

The chorus is open to any student in the 10th through 12th grade who desires to enroll. Members are exposed to a variety of choral literature representing different musical styles, including singing in different languages. Emphasis is placed on effort, the development of good musicianship, and basic music skills. There is reinforcement of skills and attitude introduced in the Freshman Chorus.

PERFORMANCE OPPORTUNITIES for all chorus students include three required concerts, and opportunities to audition for smaller ensembles, all-county and all-state chorus, and for parts in the spring musical.

PERFORMING ARTS

1 year – 1 credit

This course is designed to introduce students to drama and theatre arts. Through study materials, videotaped experiences, and hands on experience, students will explore their capabilities in acting, public speaking, movement, set design and construction, and technical stagecraft. Participation in class productions as well as school dramatic productions is a requirement for the course.

MUSIC THEORY I

1 year – 1 credit

Music theory should be studied by all music students in order that they may further the development of their musicianship, whether they are vocalists, pianists or instrumentalists. In Music Theory I, a study of all of the fundamentals of music is included, beginning with basic notation and progressing through the aspects of modern harmonization and composition. Completion of this course will give the school music student keener insight and a practical knowledge into the language and structure of music. Theory II is a continuation of Theory I with an emphasis placed on arranging a composition of both vocal and instrumental music. Music Theory II is offered on alternating years, based upon interest and enrollment.

SENIOR HIGH CONCERT BAND

1 year – ½ credit

Prerequisite(s): Prior Formal Instrumental Music Experience

Requirement(s): Concert Participation

Participation in Marching Band

Weekly Instrumental Class Lessons

Individual Weekly Practice

The Senior High Concert Band is open to 9th through 12th grade students with prior instrumental music experience. The goal of the Concert Band is to advance the musical skills of developing students and to aid in their quest to become an independent musician. This will be achieved by engaging students in various musical experiences and challenges which will give them a strong foundation from which they can grow as instrumentalists. Enrollment in band is a prerequisite for participation in small performing ensembles.

ART COURSE DESCRIPTIONS

STUDIO ART

1 year - 1 credit

This class covers fundamentals in the visual arts such as the elements and principals of art and design, color theory, lettering, and perspective. The main objective of this class is to introduce and involve students in various two and three dimensional art projects, giving them a broad understanding and appreciation for many different drawing, painting, printmaking, and sculpture, along with many more. This course is for those students considering an art sequence and is a prerequisite for all other art courses. Each semester there are graded sketchbook assignments and written tests, although the majority of the grade is based on projects done in class. Art history, art critiques, and art vocabulary are included in each unit studied throughout the year. Students are required to purchase a sketchbook and a folder. This class satisfies the graduation requirement for Art/Music.

DRAWING AND PAINTING I

1 year - 1 credit

Prerequisite – Studio Art

This course concentrates on strengthening drawing and painting skills and explores concepts introduced in Studio Art in greater depth. Students develop their personal style and skills as they apply what they have learned to charcoal, colored pencils, pastels, watercolor, and acrylic paint. The majority of the year will be spent creating two-dimensional pieces, although some three-dimensional media will be explored with an emphasis on painting. Each semester there are graded sketchbook assignments and written tests, although the majority of the grade is based on projects done in class. Art history, art critiques, and art vocabulary are included in each unit studied throughout the year. Students are required to purchase a sketchbook and a folder for this class.

DRAWING AND PAINTING II WITH PORTFOLIO DESIGN

1 year - 1 credit

Prerequisite – Advanced Art I or Drawing and Painting I

Drawing and painting skills will be strengthened during this course, along with the development of a variety of other 2-D and 3-D techniques and materials, as students will spend their time adding a variety of media to their portfolio to ensure that it is well rounded. Working with the teacher, students will design their own projects based on what their portfolio is currently lacking. There will be emphasis on finishing pieces in a professional manner, such as mounting or matting, and basic college information will be provided. Another focus of the class will be on digitally photographing all their own work and creating digital portfolios on CD, which can then be mailed out to colleges. Students are required to purchase a sketchbook and a folder for this class.

CERAMICS/SCULPTURE

½ year – ½ credit

During this course student will use clay, plaster, and other media to explore the creation of various types of three-dimensional art. They will create hand-built clay pieces exploring various tools and using different techniques of construction such as pinch, coil, and slab. Students will also have the opportunity to learn how to throw a piece of pottery on a potter's wheel. Historical and cultural aspects of sculpture, a working knowledge of vocabulary, and assessment strategies will be emphasized throughout the course. The majority of time will be spent creating three dimensional works, with some time spent drawing and planning out projects as well.

PHOTOGRAPY

½ year – ½ credit

This course emphasizes the art of black and white photography, built on a foundation of essential technical skills. Students will compose, shoot, develop and print their own photographs using a 35 mm camera. Topics covered include the development, care and handling of black and white negatives. Student will become comfortable making prints in the darkroom using an enlarger and variable contrast lenses. The two-dimensional design skills learned in Studio Art are expanded through a new media in this class. All photographs need to be mounted or matted as students will present their independent projects for class critiques.

***There is a \$25 lab fee for film and paper.**

COMPUTER COURSE DESCRIPTIONS

PUBLISHING AND PRESENTING

½ year – ½ credit

This course demonstrates the various tools that can be used to communicate your thoughts and ideas to the public. Students will discuss the history of publishing, and how modern technology allows anyone to share their ideas with the world. Students will be designing attractive and well-planned documents using text and graphics, and presenting them to the class. Students will use a variety of software packages, including Microsoft PowerPoint, Microsoft Publisher, and Adobe Photoshop. Microsoft PowerPoint helps you learn to compose a slide show using text, graphics, graphs, charts, movies, and sound. Publisher allows you to easily develop programs, calendars, newsletters, CD covers, and a wide variety of other publications from templates. Photoshop allows you to create complex images, including magazine covers. A scanner is available to digitalize your own images. Students will discuss the characteristics that define an effective presentation, and how to publish your work to a wide audience.

MICRO COMPUTER APPLICATIONS GEMINI (CSC 134, 135, 136) ½ year – ½ credit

This college level course is a survey of microcomputer applications using the Microsoft Office Suite software. Students will study the graphical operating system, and learn the current Office Suite software package including, advanced word processing, spreadsheet applications, and presentation graphics software. This course is open to sophomores, juniors, and seniors.

INTRODUCTION TO PROGRAMMING GEMINI (CSC 115)**½ year – ½ credit**

This college level course serves as a first course for all computer-related majors. This course emphasizes using a structured programming language. Students will design programs by analyzing given information and making flow charts to visually follow their logic. There will be special emphasis on understanding and using a multi-tasking operating system environment, and customizing the desktop, as well management of files and folders.

DATA STRUCTURES I GEMINI (CSC 190)**½ year – ½ credit**

Prerequisite: Introduction to Programming

This college level course is a continuation of Introduction to Programming. This college level course is a study of the more common data structures utilized in computing science applications. Topics covered include scope, lifetime, value-returning functions, switch statements, do loops, for statements, classes, structs, and arrays. Development of algorithms for practical applications will demonstrate the advantages of the above.

WEB DESIGN**½ year – ½ credit**

This course is designed as an introduction to the design, creation, and maintenance of web sites. Students will work with Front Page and Adobe PhotoShop software to create and design web pages. Students will also use the HTML language to understand the code that is used to create websites. Existing websites will be critiqued and evaluated for aesthetics, relevance, purpose, and effectiveness. Students should be able to use the internet, should have basic computer knowledge and skills, and should have reasonable keyboarding skills.

HEALTH COURSE DESCRIPTION**HEALTH****½ year – ½ credit**

The Health program at Williamson High School is centered on mental health and psychology. The course deals with the simple question: Why do we abuse our minds and bodies? Every topic we study, be it drug abuse, rape or obesity, is examined from a psychological standpoint. It is hoped that our students will leave Health class with a better understanding of the workings of the mind and body, and thus lead a more successful and healthy life.

PHYSICAL EDUCATION COURSE DESCRIPTION

PHYSICAL EDUCATION

1 year – ½ credit

The Physical Education curriculum offers students opportunities for challenging and innovative activities to promote positive, healthy attitudes and behaviors towards fitness and lifelong activities. Students are provided a general foundation of knowledge so they can make effective choices regarding their physical activity; the attainment of physical fitness and a desire to maintain this fitness throughout their lives. Activities offered include, cross-country skiing, snow-shoeing, roller-skating, golf, ultimate Frisbee, weight training, various team and individual sport activities.

Physical Education is a course mandated by the State of New York requiring that each student earn 2 credits in order to graduate. Classes meet every other day for the full year. Students earn 1/2 credit for each year of Physical Education.

OPPORTUNITIES AT WAYNE TECHNICAL AND CAREER CENTER

1 year - 4 credits

Students must meet academic and attendance criteria to attend a BOCES Program. All BOCES courses, except Cosmetology, can be taken for one year as elective credit or as part of an extended Occupational Education sequence.

POWER MECHANICS - A two-year sequence teaching the mechanics of assembling and servicing complex farm machinery. Students familiarize themselves with the use, service, operation and repair of all types of gasoline and diesel engines.

AUTO BODY REPAIR - A two-year sequence to prepare for major collision repair, parts replacement, hardware repair and service, painting and refinishing the auto.

AUTO TECHNOLOGY - A two-year sequence to develop skill in the use of tools and equipment employed in automotive service work, and to instill a broad understanding of the principles of the mechanical and electrical system found in the modern auto.

BUILDING TRADES - A two-year sequence intended to develop skills in the use of tools and equipment practices commonly employed in the area of carpentry.

COSMETOLOGY - A two year and five week summer course in preparation to qualify for the New York State License in Cosmetology. **To continue in the program for the second year, students must complete the necessary hours in the summer between their junior and senior year. If these hours are not completed, the student will not be eligible for continued participation in the program.**

CRIMINAL JUSTICE -This program is designed to provide students with a variety of skills required in the broad field of Public Security. When the course is completed, students will understand techniques and procedures involved in conducting investigations, safety and environmental audits, tactical field operations and ballistics and firearms identification and management. They will also gain first-hand knowledge of effective security systems, traffic control, CPR and First Aid.

DRAFTING/CAD -Drafting is a one or two-year program in which students develop skills in architectural, mechanical, electronic, and Computer-Aided Design (CAD). Students gain on-the-job experience while learning about manufacturing design, model building, house designing, presentation drawing, house drawing, and technical illustrating. This program prepares students for entry-level employment as drafters, as well as for further study in drafting and related disciplines.

CULINARY ARTS - A two-year sequence teaching the basic skills needed in the preparation and serving of food. Students will receive instruction in baking, broiling and other methods of preparing food, and in the use and care of kitchen equipment.

HEALTH DIMENSIONS - Health Dimensions is a two-year program that provides basic knowledge and competencies considered common to all job titles in the health occupations field. The second year is comprised of Nurse Assistant training.

EARLY CHILDHOOD EDUCATION – A two-year sequence designed to prepare students for entry into child care centers and agencies in the capacity of aides. The major areas of concentration will deal with physical, social, and emotional development of pre-school age children.

MOTORSPORT FABRICATION – Students will be introduced to the field of precision machining and welding/fabrication through a hands-on approach. A student completing the course will be able to safely setup and operate various machines such as lathes, mills, grinders, drill presses, band saws, MIG welders, TIG welders, ARC welders, tube bender, oxy-fuel torches, plasma cutters and Computer Numerical Controlled (CNC) mills and lathes. Also included will be instruction on measuring tools, CAD-CAM (MasterCam and AutoCAD), print reading, and shop math. This course is recommended for students interested in pursuing a career in the field of industrial or mechanical engineering or to obtain employment in the welding and machining field after graduating. Employment in both disciplines is very good throughout the country. There are no prerequisites, although a good math background is helpful. The length of the course is two years.

ANIMAL SCIENCE - The Animal Science program is designed to serve those students interested in pursuing a career in the veterinary or related field. Techniques in handling, exercising and grooming domestic animals, as well as procedures and routines for the care, handling and breeding of laboratory animals are included in this course. Internships with area Veterinary hospitals will be built into the curriculum. It will provide excellent background for those desiring to enter a two-year post-secondary institution leading to Vet Tech Certification. Entry level employment opportunities in various fields are also available.

COMPUTER NETWORK TECHNICIAN - The Computer Technician Program is a two-year program that trains students to install cabling, recommend and install hardware, explain and provide assistance for MS-DOS/Windows, Internet and Microsoft Windows NT/Novell Network, detect and solve system failures and help utilize on-line resources.

NEW VISIONS MEDICAL – A new program that blends academics and career education aimed at high school seniors with an interest in medical careers. This program is geared toward students who are planning to attend college in some area of the medical field and have taken three years of Regents Mathematics and Science. Senior English and Social Studies requirements are included in the program. The program places students in a hospital setting with access to all hospital operations.

INFORMATION SYSTEMS TECHNOLOGY - A new program designed to give students core knowledge of information systems and their application to business practices including e-commerce. This course will help students develop skills in computer software and hardware fundamentals, web-based programming, and web design techniques.

Williamson High School Activities and Clubs

Clubs

Spanish Club

Literature Club

French Club

Ski Club

Yearbook

International Club/Model UN

American Field Service (AFS)

Future Business Leaders of America (FBLA)

Leadership Opportunities

Student Council

Class Officer

Class Projects

Mentor Program

REACH Asset Committee

Link Crew

Extra-Curricular Events

Band and Chorus Performances

Marching Band

Select Wind Ensemble

Solo Festivals

Drill Team

Jazz Ensemble

School Play

Performers

Ushers

Set Design/Construction

Graphic Arts

Technical Crew

Stage Crew

Sports

	Boys	Girls
Fall	Cross Country Soccer (JV and Varsity)	Cross Country Soccer (JV and Varsity) Volleyball (JV and Varsity)
Winter	Basketball (JV and Varsity) Cheerleading (JV and Varsity) Indoor Track Wrestling (JV and Varsity)	Basketball (JV and Varsity) Cheerleading (JV and Varsity) Indoor Track
Spring	Baseball (JV and Varsity) Track Tennis Golf	Softball (JV and Varsity) Track Tennis Golf

The Williamson Central School District does not discriminate on the basis of sex, race, color, national origin, handicapping conditions or age in the educational program or activities which it operates. This policy of nondiscrimination includes the following areas: recruitment, and appointment of employees; employment pay and benefits; counseling services for students; access by students to educational programs, course offering and student activities.

Inquiries concerning this policy may be referred to the Assistant Superintendent for Business, Title 9/Section 504 Coordinator, Williamson Central School District Office, Miller Street, Williamson, New York 14589. The phone number is 315-589-9661.

