



Williamson

High School

*"Life does not always give you what you want but if you look closely
you will see that it gives you what you need for your growth."
~Leon Brown*

Academic Excellence
Marauder Pride

COURSE DESCRIPTION HANDBOOK
2019 - 2020



Williamson Central School

Deep Roots | Core Values | Bright Futures

Mission

Our mission is to provide a learning community that inspires character, service, knowledge and wisdom.

Vision

Active Learning in a Supportive, Respectful Environment

Table of Contents

Graduation Requirements	3
Diploma Options	5
Course Planning / Career Development	7
Community Service Graduation Requirement	8
Requirements for Student Course Load	8
Add/Drop Period	8
Academic Intervention Services	9
Academic Supports	9
Grade Level Promotion	9
College Level Courses offered at WHS	9
Weighted Grading	11
ENGLISH COURSE DESCRIPTIONS	12
SOCIAL STUDIES COURSE DESCRIPTIONS	15
MATHEMATICS COURSE DESCRIPTIONS	18
SCIENCE COURSE DESCRIPTIONS	20
LANGUAGES OTHER THAN ENGLISH (LOTE) COURSE DESCRIPTIONS	23
BUSINESS COURSE DESCRIPTIONS	26
TECHNOLOGY COURSE DESCRIPTIONS	27
MUSIC COURSE DESCRIPTIONS	30
ART COURSE DESCRIPTIONS	33
HEALTH COURSE DESCRIPTION	35
PHYSICAL EDUCATION COURSE DESCRIPTIONS	35
21st CENTURY TECHNOLOGY COURSES – MARION HIGH SCHOOL	36
OPPORTUNITIES AT WAYNE TECHNICAL & CAREER CENTER (WTCC)	37

Graduation Requirements

<u>Regents Diploma</u>	<u>Regents Diploma With Advanced Designation</u>
Required Courses	Required Courses
English4.0	English4.0
Social Studies4.0	Social Studies4.0
Math3.0	Math3.0
Science3.0	Science3.0
Language Other Than English*1.0	Language Other Than English3.0
The Arts (Music, Art, Technology).....1.0	The Arts (Music, Art)1.0
Physical Education2.0	Physical Education2.0
Health0.5	Health0.5
Electives3.5	Electives1.5
Total22.0	Total22.0
Required Regents Exams (passing score of 65)	Required Regents Exams (passing score of 65)
English Language Arts	English Language Arts
One Social Studies exam	One Social Studies exam
One Mathematics exam (Algebra 1, Geometry, or Algebra 2)	Three Mathematics exams (Algebra 1, Geometry, and Algebra 2)
One Science exam	Two Science exams (one life science and one physical science)
One Pathway exam (see Pathway Assessment Options)	One Language Other Than English exam** One Pathway exam (see Pathway Assessment Options)
 *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.	 **Students seeking an Advanced Regents diploma who pursue a five-unit sequence in art, music, business or occupational education may be exempted from the second language requirements.

For more information:

<http://www.p12.nysed.gov/ciai/gradreq/Documents/CurrentDiplomaRequirements.pdf>

Pathway Assessment Options

This option permits a student to pass four Regents exams and a comparably rigorous technical, arts or other assessment for the fifth examination required for graduation. All students must pass the following 4 required Regents exams or the corresponding Department alternative examination:

- 1 Math Regents exam;
- 1 Science Regents exam;
- 1 Social Studies Regents exam;
- The English Language Arts Regents exam.

In **addition**, all students must choose 1 of the following assessments:

- Complete all the requirements for the CDOS Commencement Credential found here <http://www.p12.nysed.gov/ciai/multiple-pathways/memos/cdos-graduation-pathway-option.html> , or
- Additional Math Regents exam in a different course or Department approved alternative, *or*
- Additional Science Regents exam in a different course or Department approved alternative, *or*
- Additional Social Studies Regents exam in a different course or Department approved alternative, *or*
- Additional English assessment in a different course selected from the Department approved alternatives list, *or*
- An approved CTE assessment after successfully completing an approved CTE program
- A Department approved pathway assessment in the Arts
- A Department approved pathway assessment in a Language Other Than English (LOTE)

Diploma Options

Diploma Type	Available to	Link for More Information
Regents with Advanced Designation	All Student Populations	http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD
Regents Diploma	All Student Populations	http://www.p12.nysed.gov/part100/pages/1005.html#regentsdiploma
Regents Diploma (through appeal)	All Student Populations	http://www.p12.nysed.gov/part100/pages/1005.html#regpasscore
Local Diploma (through appeal)	All Student Populations	http://www.p12.nysed.gov/part100/pages/1005.html#regpasscore
Local Diploma	Students with disabilities with an individualized education program (IEP) or if included on the student's Section 504 Accommodation Plan	Low Pass Safety Net Option, or Low Pass Safety Net and Appeal, or Compensatory Safety Net Option: http://www.p12.nysed.gov/part100/pages/1005.html#6localdiploma
Local Diploma (through Superintendent's Determination)	Students with disabilities with an IEP Does NOT INCLUDE students with a Section 504 Accommodation Plan	http://www.p12.nysed.gov/specialed/publications/2017-memos/superintendent-determination-of-graduation-with-a-local-diploma-updated.htm
Local Diploma	English Language Learners Only	http://www.regents.nysed.gov/common/regents/files/215p12a1.pdf

Non-diploma High School Exiting Credentials

Credential Type	Available to	Link for More Information
Career Development and Occupational Studies Commencement Credential	All students other than those assessed using the NYS Alternate Assessment	http://www.p12.nysed.gov/ciai/multiple-pathways/memos/cdos-graduation-pathway-option.html
Skills and Achievement Commencement Credential	Students with severe disabilities that are assessed using the NYS Alternate Assessment	http://www.p12.nysed.gov/part100/pages/1006.html

Designations of Academic Achievements

Diploma Type	Available to	Link for More Information
Regents with Honors	All Student Populations	http://www.p12.nysed.gov/part100/pages/1005.html#diplomaHonors
Regents with Advanced Designation with Honors	All Student Populations	http://www.p12.nysed.gov/part100/pages/1005.html#diplomaHonors
Regents with Advanced Designation with annotation that denotes Mastery in Math	All Student Populations	http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD
Regents with Advanced Designation with annotation that denotes Mastery in Science	All Student Populations	http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD

Local Diploma, Regents Diploma, Regents Diploma with Advanced Designation (with or without Honors), with a Career and Technical Education Endorsement	All Student Populations	http://www.p12.nysed.gov/part100/pages/1005.html#carteched
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Course Planning / Career Development

Counselors meet with students annually to develop program plans for future years. During these meetings graduation options and requirements, academic progress, course offerings, student goals, strengths and weakness are reviewed.

Xello is a comprehensive career research guide. It contains high school and post-secondary planning tool as well as a personal digital portfolio for students. It features tools to help students learn about career choices and relationships between their schoolwork, the world of work and personal characteristics. Our counseling department uses this tool along with supplemental career guidance activities during regular class time as outlined in the District’s Guidance Plan to help students see how their interests, skills, and education can connect to a future pathway of their choosing.

Through their Xello account, students will also make course selections and complete the Course Planner located in their My Plan section. As a way to assists students in further connecting high school coursework, we have connected our course offerings in XELLO to the US Education Department's 16 Career Clusters:

Agriculture, Food & Natural Resources	Hospitality & Tourism
Architecture & Construction	Human Services
Arts, A/V Technology & Communications	Information Technology
Business Management & Administration	Law, Public Safety, Corrections & Security
Education & Training	Manufacturing
Finance	Marketing
Government & Public Administration	Science, Technology, Engineering & Math
Health Science	Transportation, Distribution & Logistics

Leading up to the student and counselor meetings students should be completing or updating the About Me section in XELLO. Any student wanting to work towards the CDOS Commencement Credential as either a supplement to their diploma or as a Pathway Assessment Option will need to complete all grade level lessons each year and keep their About Me section updated.

Community Service Graduation Requirement

Each student must complete 20 hours of community service by February 15th of their graduation year (at least two different sites). It is recommended that students begin their community service in ninth grade. Transfer students must complete 5 hours per year for each year they attend Williamson High School.

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.

Add/Drop Period

Students will have 10 days from the start of the semester to add/drop full year courses and 5 days to add/drop half year courses. Any potential course changes after the deadline will only be considered through a full staffing process involving the student, parent/guardian, teacher, counselor, and administrator.

Academic Intervention Services

Academic Intervention Services (AIS) are supports and services for students who need assistance in meeting regular education expectations per New York State Education Department (NYSED) guidelines. Other building-level services may be provided for students who demonstrate an academic need for support to be successful in classes.

Academic Supports

Academic supports are available to students at Williamson High School who may need additional assistance with regents preparation, organizational skills, homework support, review for tests/quizzes and reinforcement of course content. Students are able to get academic support 10th period in various locations including teachers' classrooms. Additionally, our Learning Center provides such supports.

Grade Level Promotion

Grade level and homeroom 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

Please visit <http://www.p12.nysed.gov/earningcredit> for more information.

College Level Courses offered at WHS

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

- earning college credits at a reduced 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 subject areas

Gemini/Dual Credit 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 \$5 per credit hour

each semester. Students who are eligible for free and reduced lunch will have the fee waived. Students must self-identify their eligibility for the waived fee on their registration form. Students are expected to have an overall 80% Grade Point Average to enroll in a Gemini course, other prerequisites may apply for some courses. Only students prepared to take a college course should be in a Gemini class. The following is a list of anticipated courses with the Gemini option for the 2019-2020 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: Composition I	3
		ENG 102 : Intro. to Literature	3
U.S. History Gemini	1	HIS 110: U.S. History I	3
		HIS 111: U.S. History II	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
Math of Money	1	MAT 110: Math of Money	3
French 4 Gemini	1	FRN 201: French III	3
		FRN 202: French IV	3
French 5 Gemini	1	FRN 203: French V	3
		FRN 204: French VI	3
Spanish 4 Gemini	1	SPN 201: Spanish III	3
		SPN 202: Spanish IV	3
Spanish 5 Gemini	1	SPN 203: Advanced Spanish: Vistazos Hispanos	3
		SPN 204: Advanced Spanish: Perspectivas Hispanoamericanas	3
Environmental Science Gemini	1	BIO 103 Environmental Science	4
Biology Gemini	1	BIO 121: General Bio I	4
		BIO 110: Fundamentals of Human Anatomy and Physiology Gemini	3
Chemistry Gemini	1	CHM 121: General Chemistry I	4
		CHM 122: General Chemistry II	4

Project Lead the Way (PLTW) Courses

PLTW includes pre-engineering and technology classes which provide students the opportunity to earn college credit from the Rochester Institute of Technology based on a qualifying final exam score and an overall 85% course average. There are four courses currently being offered in this program: Drawing and Design for Production, Principles of Engineering, Digital Electronics, and Civil/Architectural Engineering.

Advanced Placement Courses

Courses designated as Advanced Placement are college credit bearing courses offered at WHS through a cooperative educational endeavor between secondary schools, 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 \$94.00 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 2019 - 2020 school year:

- AP Calculus AB
- AP English Literature and Composition (Alternating Years)
- AP English Language and Composition (Alternating Years)

Weighted Grading

The primary purpose of a weighted grading system is to encourage students to take more challenging courses such as Project Lead the Way, 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:

- AP Classes
- Gemini Classes
- Project Lead the Way

Method for Weighting

A weight of 3% will be applied to the overall average for qualified courses. A weighted course average will be used to determine the overall weighted average.

Example

Class	Student Grade		Weighting	Grade(Used in Avg.)
US History Regents	85	x	1.00	= 85.00
US History Gemini	85	x	1.03	= 87.55

Elective Courses offered at WHS

Williamson High School is proud to offer an assortment of elective classes. Elective classes can truly be enriching and students are encouraged to venture beyond. For example, take a class that

is not typically in one's repertoire like Introduction to Computer Science or Performing Arts. By limiting yourself to what you already know, you're likely missing out on life experiences and personal growth. It is important to note that **elective courses are dependent on staffing and the number of students enrolled.**

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. Skills focus on utilizing text-based evidence to reach conclusions. 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. Common Core shifts are emphasized.

ENGLISH 10

1 year - 1 credit

English 10 continues the close reading and critical questioning work begun in English 9. The reading will include rigorous texts such as, *The Immortal Life of Henrietta Lacks* and *The Curious Incident of the Dog in the Night-time*. Short selections from *The Joy Luck Club*, *Friday Night Lights*, poems by authors around the world, and Dr. Martin Luther King's "Letter from Birmingham Jail" are also studied. The common purpose is to develop deep reading skills to use with challenging texts, analyze author's claims, support the conclusions with text, and write fluently about our understandings. Students will keep a notebook with a cumulative list of college vocabulary words and their roots. This course prepares students for the English Regents exam in 11th grade and promotes college/career readiness.

ENGLISH 11

1 year - 1 credit

Students in English 11 read classic and contemporary pieces. Units of study include novels, drama, poetry, short stories and nonfiction. There is heavy emphasis on writing skills: recognition and analysis of literary elements, development of essays with strong and specific support, and overall sophistication and clarity of written work. A research paper written in

MLA style is required. **Students take the New York State Regents English Language Arts assessment as a final examination and as a graduation requirement.**

ENGLISH 12

1 year - 1 credit

English 12 provides a variety of differentiated learning experiences designed to meet the needs of students who will be branching off into different environments for the next year: college, military, or the workplace. Critical reading and writing skills are emphasized. Units include *The Last Lecture*, *The Five People You Meet in Heaven*, *City of Thieves*, poetry, and short stories. In addition, students complete a senior project based on an interest area of their choosing. A final exam is required for students who have under a 90% cumulative grade for the year.

CONTEMPORARY FICTION

½ year – ½ credit

CONTEMPORARY NONFICTION

½ year - ½ credit

Contemporary Fiction and Contemporary Nonfiction are intended for junior and senior students who enjoy reading, and would like to study literature published in the twenty-first century. A central question to these classes will be to decipher who we are today, and to look at how authors are addressing our current culture through their fiction and nonfiction. These courses also introduce regent patterns or changes in literature, poetry and literary theory. Students will read a range of novels, poetry, short stories, essays, memoirs, biographies, and autobiographies from a diverse group of cutting-edge writers, and the class will frequently hold “book club” style discussions, reflecting upon the themes, style and form of the various reading assignments. Participation, journals and projects will be the predominant assessments. Expect nightly independent reading.

ENGLISH 12 GEMINI (ENG 101/102)

1 year – 1 credit

Prerequisite(s): Successful completion of English 11 with a final grade of 80

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, including a 6-8 page documented research paper. The readings will be prescribed as models for study; they are generally short pieces from the textbook. Students will undertake an extensive review of basic grammar and sentence structures, while learning to master new techniques in style and voice. Students should expect regular homework and a fair amount of writing and revising. The course is designed for students who are willing to work hard.

Second Semester (ENG102)

Students will study various genres of literature, such as the novel, short stories, poetry, and plays. Prerequisite skills include planning, writing a thesis statement, providing support, and correct grammar/punctuation usage. Therefore, more emphasis is placed upon how to analyze and interpret literature. Students should expect frequent reading homework, regular quizzes, frequent short writing assignments, and approximately one full-length essay per unit. The course is designed for students who are willing to work hard.

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 depending on the student's AP Exam score and the student's college AP credit policy. 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 depending on the student's AP Exam score and the student's college AP credit policy. This course will be offered in alternate years.

SOCIAL STUDIES COURSE DESCRIPTIONS

GLOBAL STUDIES

Grade 9

1 year - 1 credit

Grade 10

1 year - 1 credit

In Global 9 and Global 10 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 to the French Revolution. The second half of the course (grade 10) begins prior to the French Revolution and continues to modern day. Although the history and course of study in Global 9 and 10 are intrinsically linked, the Regents Exam at the end of Grade 10 will assess only the Global 10 era.

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 today.

First Semester (HIS110), 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.

Second Semester (HIS111), 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)

Students have the option of taking the AP US History Exam in May. The United States History & Government Regents Exam is given at the end of the year.

SOCIAL STUDIES 12

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.

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.

ELECTIVES

PERSONAL FINANCE

½ year - ½ credit

This course covers many aspects of “spending money” and making personal financial decisions. Students look at a wide variety of topics including the following: steps to decision making (personal, financial, school and employment); banking (how to write and balance a checkbook, how to select a bank, ATM cards, debit cards, savings); credit (credit cards, personal loans, car loans, use and abuse of credit); investment (different investment instruments, savings versus investment, mutual funds, stocks and bonds); reduction of risk (insurance – all types of auto, life, home and personal); budgeting (how to build and maintain a personal budget); taxes (how to file simple state and federal income tax returns); consumer fraud; buying consumer goods; and buying a new or used car.

VIETNAM ERA**½ year – ½ credit**

This is unique course will shed light on the turbulent time period in American and world history when the United States and other countries were conducting an unpopular military engagement that would become one of America's longest armed conflicts. We are investigating the effects on American society of this time period.

CONTEMPORARY ISSUES**½ year – ½ credit**

This unique course will be driven by student interest and dialogue on issues in real time. We will identify and examine current events/issues that affect modern society then discuss and debate them. Each student will evaluate the impact and importance of selected current events and issues on individuals and groups. Students are required to read, watch, and listen to different mass media in order to find reliable information to create an intellectual and well-informed opinion about several contemporary topics. Students will explore and analyze new subject matters, and learn to respect others' opinions on those matters while developing their own.

SOCIOLOGY GEMINI (SOC 100)**½ year – ½ credit**

Introduction to Sociology is a college level course that focuses on a collegial seminar experience. 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 inequality and prejudice.

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

Introduction to Psychology is a college level course that focuses on a collegial seminar experience. 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, and 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.

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. All Regents level courses require a final written Regents Examination.

Recommended Math Sequence

Algebra 1

Geometry

Algebra 2

Elective Courses in Math

Pre-Calculus or Pre-Calculus Gemini

Advanced Placement Calculus AB

Math of Money Gemini

Accounting (listed in Business Course Descriptions)

Principles of Engineering (listed in Technology Course Descriptions)

ALGEBRA 1

1 year - 1 credit

Algebra 1 represents the beginning of the new NYS sequence for mathematics. The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. Because it is built on the middle grades standards, this is more ambitious version of Algebra 1 than has generally been offered. The curriculum will deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving and using quadratic functions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Topics include: Relationships between quantities and reasoning with equations and their graphs, descriptive statistics, linear and exponential functions, polynomial and quadratic expressions, equations and functions and a synthesis of modeling with equations and functions. The NYS Examination for Common Core Algebra 1 is the final examination for this course.

GEOMETRY

1 year - 1 credit

Prerequisite(s): Algebra 1

Geometry is the second course of the new NYS sequence for high school mathematics. Topics include geometric relationships, logic and geometric proofs, transformations, similar and congruent triangles, properties of triangles, polygons and quadrilaterals, coordinate geometry, geometry of circles, geometric relationships between solids, and constructions of locus of points. The NYS Common Core Geometry Regents is the final examination for this course.

ALGEBRA 2

1 year – 1 credit

Prerequisite(s): Geometry

Algebra 2 represents the 3rd year of the new Common Core NY sequence for mathematics. High school students need to pass this Regents for the Regents Diploma with Advanced Designation. Building on their work from Algebra 1, students extend their repertoire of functions to include polynomial, rational, and radical functions. The Mathematical Practical Standards apply throughout the course, and together with the content standards, prescribe that students experience math as a coherent, useful, and logical subject that makes use of their problem solving skills. The critical areas for this course, organized into four units, are as follows: 1) Polynomials and integers, 2) Extend what was learned in Algebra 1 and geometry to work on algebra 2 trig in the coordinate plane 3) Using math and statistics to problem solve 4) Probability and data driven problem solving. Students will take the NYS Common Core Regents Algebra 2 as the final examination for this course..

MATH LAB (ALGEBRA, GEOMETRY, ALGEBRA 2)

1 year - ½ credit

Math Lab is designed for the student who would benefit from additional time for skill development in preparation for the NYS Examination in Algebra 1, Geometry or Algebra 2. Teacher recommendation, assessment scores and previous math achievement play a role in student placement in a Math Lab.

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

Prerequisite(s): Successful completion of Algebra 2 with a final average of 80

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. Students must have completed Algebra 2 with an 80 to be eligible for this class.

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 and definite integrals; applications of integrals; and sequences, series, and polynomial approximations. The AP Calculus AB Exam is required as well as a full exam after school in the month before the AP Exam. College credit can be granted depending on the student's AP Exam score and the student's college AP credit policy.

MATH OF MONEY GEMINI (MAT 110)

1 year- 1 credit

This is an entry level general education math course directed toward the student who wishes to study mathematics with business and financial applications. This mathematics course uses algebra skills to study business related topics that enhance the student's abilities in and appreciation for mathematics. The course topics are chosen so as to be of interest to a broad range of students. Among the topics chosen are simple interest, simple discount, compound interest, present and future value of annuities, spreadsheets and other financial applications.

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 Living Environment, Earth Science, Chemistry, and Physics. All Regents level courses require successful completion of written laboratory reports and a final written Regents Examination.

Recommended Science Sequence

Earth Science

Living Environment

Physical Setting: Chemistry

Physical Setting: Physics

Elective Courses in Science

Environmental Science

Environmental Science Gemini

Chemistry Gemini

Biology Gemini

Principles of Engineering (listed in Technology Course Descriptions)

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: Ecology, Human Physiology, Genetics, Living Things, Reproduction and Development, and Evolution. A separate lab period is required. Students will take the Living Environment Regents Examination 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 in June 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 study of living environment focuses on three main areas: conservation and protection of resources, environmental education and communication, and environmental research. The units of study are 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.

CHEMISTRY

1 year – 1 credit

Prerequisite: Integrated Algebra

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. The NYS Chemistry Regents examination is the final exam for this course.

CHEMISTRY GEMINI (CHM 121/122)

1 year – 1 credit

Prerequisite: High school chemistry is strongly recommended

First Semester (CHM 121)

Gemini Chemistry is a two-course sequence suitable for students who have successfully completed regents chemistry and have an overall GPA of 80 or higher. Topics include a review of problem solving using dimensional analysis, significant figures and graphing. Atomic structure, elements, ionic and molecular compounds, chemical equations, chemical stoichiometry, organic molecules, thermodynamic principles and gas laws are studied in more detail. To be eligible to take the second semester you must pass semester one with a "C" or higher.

Second Semester (CMH 122)

Semester two topics includes periodic properties of the elements, VSEPR, intermolecular forces, solutions, chemical kinetics and equilibrium, and acid and bases. Typed in depth lab reports will be written for every lab. Successful completion of Gemini Chemistry would result in the earning of 8 credit hours.

PHYSICAL SETTING/PHYSICS

1 year – 1 credit

**Prerequisite: Successful completion of the Integrated Algebra,
Successful completion of Algebra 2 (or concurrent enrollment with teacher
recommendation)**

This is a Physics course that allows state guidelines in content and achievement level. This college preparatory course is considered a prerequisite for most four-year college programs. Students will study problem solving techniques and participate in laboratory activities in mechanics, electricity and magnetism, waves and optics, and modern physics. The skills and concepts developed will help prepare students for demands of our ever-growing technical society. It is a course that is enjoyed by all and is necessary for those who want a well-rounded science background. The Regents examination in Physics is required. This lab also has a 30-hour laboratory requirement.

BIOLOGY GEMINI (BIO 121)

½ year - ½ credit

Prerequisite(s): Living Environment and Chemistry

The Biology Gemini course is a college-level introductory biology course. The intent of the course is to expose students to higher-level biological principles, concepts, and skills and allow them the opportunity to apply their knowledge to real-life applications. Student are expected to develop an understanding of basic principles of biology, photosynthesis and respiration, levels of cellular complexity, genetics and evolution.

**FUNDAMENTALS OF HUMAN ANATOMY AND
PHYSIOLOGY GEMINI (BIO 110)**

½ year - ½ credit

Study of the basics of human anatomy and physiology including anatomical terminology, basic biochemistry, cells and tissues, and the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, and urinary systems. Introduction to common human disease processes. Prerequisite may be waived with instructor's approval.

ENVIRONMENTAL SCIENCE GEMINI (BIO 103)

1 year - 1 credit

Prerequisite(s): Successful completion of Living Environment Regents and Earth Science Regents

This course investigates the interactions and relationships between humans and the Earth. It provides the scientific foundation for analyzing today's pressing environmental issues and the solutions for a sustainable future. Students will gain an understanding and appreciation of the impact of humans on other living organisms, water resources, air quality, and energy and mineral resources. In analyzing potential solutions to these environmental issues, students will evaluate the impact of their own choices on the Earth's resources as well as the relative role of governments in setting sustainable policies. In the laboratory component of the course, students will learn scientific methodology, sampling procedures and methods used to test environmental quality. A portion of the lab will include outdoor experiences. (Also listed as CON 103)

LANGUAGES OTHER THAN ENGLISH (LOTE) COURSE DESCRIPTIONS

French 1

1 year - 1 credit

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

Proficiency Exam in French at the end of this course. Successful completion of this course will earn the student the one credit of LOTE study required for high school graduation.

FRENCH 2

1 year - 1 credit

French 2 is the continuation of the study begun in French 1. Emphasis is on the four skills of listening, reading, writing and speaking as well as on vocabulary acquisition and the investigation of grammatical concepts. Students will expand their ability to communicate about current events and gain the ability to discuss past events. Topics include a review and broadening of those from French 1, as well as the addition of house and home, chores, daily routines, food stores and food shopping, travel, professions and arts and entertainment.

FRENCH 3

1 year - 1 credit

French 3 presents a continued emphasis on the skills of listening, reading, writing and speaking as well as vocabulary acquisition. Previous concepts are reviewed and enhanced to help students gain greater proficiency in the French language. Students will review previous grammatical structures and learn more advanced grammatical structures. Further study of Francophone cultures will provide enhanced cross-cultural understanding. Students take the Comprehensive French Regents exam at the end of this course. Successful completion of **both** the course and the Regents Exam will help the student to earn the Regents diploma with advanced designation.

FRENCH 4 GEMINI (FRN 201/202)

1 year - 1 credit

(This course may be co-seated with French 5 GEMINI depending on interest.)

This college level course includes an emphasis on spontaneous speaking and authentic listening, reading and writing skills. Students will continue to increase their French vocabulary. Previous grammatical structures will be reviewed and advanced grammatical structures will be introduced. The major goals of this course are to help the student to develop greater fluency in the French language and to gain a greater understanding of Francophone cultures. Topics to be covered include the world of work, Francophone holidays and family celebrations, hobbies and pastimes, the environment, French in the Americas, travel, Francophone music and current events. Upon successful completion of this course, students may earn up to six college credits through FLCC.

FRENCH 5 GEMINI (FRN 203/204)

1 year – 1 credit

(This course may be co-seated with French 4 GEMINI depending on interest.)

This college level course continues the emphasis on spontaneous speaking and authentic listening, reading and writing skills. Students will continue to increase their French vocabulary. Previous grammatical structures will be reviewed and advanced grammatical structures will be introduced. The major goals of this course are to help the student to develop greater fluency in the French language and to gain a greater understanding of Francophone cultures. Topics to be covered include leisure activities, cultural identity, French history, current events, idiomatic expressions, Francophone literature and visual art . Upon successful completion of this course, students may earn up to six college credits through FLCC.

SPANISH 1

1 year - 1 credit

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

SPANISH 2

1 year - 1 credit

This course is a continuation of Spanish 1. There is a continued emphasis on reading, writing, speaking, and listening. Students will continue studying the grammatical structures of Spanish as well as increasing their Spanish vocabulary. Some of the topics covered include shopping, stores, city life, family traditions, education, and Hispanic American culture.

SPANISH 3

1 year - 1 credit

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

SPANISH 4 GEMINI (SPN 201/202)

1 year - 1 credit

This Gemini course allows students to continue working on reading and writing skills in Spanish. Students will also be encouraged to communicate orally and in written form, as well as develop a fluency of the language. Short stories and films provide opportunities for a deeper understanding of the culture of the Spanish speaking world. Some of the topics covered include memories, the

environment, travel, health, shopping, persuasion, relationships and values, modern society, social interactions and the media.

SPANISH 5 GEMINI (SPN 203/204)

1 year – 1 credit

This Gemini course will continue to fine-tune students' skills of listening, speaking, reading, and writing while exploring Spain and Latin America. This course also enables students to use previously mastered material on a daily basis as they read and speak about a variety of topics and literature. Students will be assessed using a variety of methods including: oral assignments, presentations, dialogues, short compositions, and other displays. Students are expected to participate using the target language. This course will focus on Hispanic culture and history. Students will maintain exposure to the language while developing further knowledge of culture.

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.

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.

ACCOUNTING I

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 AND ENTERTAINMENT MARKETING

1 year - 1 credit

Sports and Entertainment Marketing 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 subsystems. 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.

GOOGLE APPLICATIONS

½ year - ½ credit

GOOGLE Applications is a half year, half credit course open to students of all grades. The course will introduce the GOOGLE suite and other google applications that will help students during their High School, Post Secondary, and future careers. We will cover the basics of a creating and using a google account; as well as Web Search tools and Chrome. GOOGLE calendar and other apps that will help student productivity will be taught. Also, a major focus will be the GOOGLE suite, GOOGLE Docs, Sheets, and Slides.

TECHNOLOGY COURSE DESCRIPTIONS

DRAWING AND DESIGN FOR PRODUCTION (DDP)

1 year – 1 credit

Drawing and Design and for Production is one of the three foundation courses in the Project Lead the Way program. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science and technology. Drawing and Design for Production is intended to serve as a foundation course within the Project Lead the Way course sequence. All of the topics learned in this course will be used in future courses. Drawing and Design for Production (DDP) is a high school level course that is appropriate for 9th thru 12th

grade students who are interested in design and engineering or for students looking to fulfill their Art or Music requirements for graduation. The major focus of the DDP course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. DDP gives students the opportunity to develop skills and understanding of course concepts through activity based projects, and problem-based learning used in combination with a teaming approach.

The course assumes no previous knowledge. Student will employ engineering and scientific concepts in the solution of engineering design problems. In addition, students use a state of the art 3D solid modeling design software package (Inventor) to help them design solutions to solve proposed problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. Students will also learn how to document their work and communicate their solutions to their peers. Students may earn college credit through Rochester Institute of Technology if all requirements are met and reduced tuition fee is paid.

PRINCIPLES OF ENGINEERING (POE)

1 year – 1 credit

This course is the second course in the PLTW series of High School Technology courses. This course may be used for a High School Math or Science credit. It is not necessary but helpful to have previously taken DDP.

This course is designed to help students understand the field of engineering and engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.

POE will engage students through a combination of activity-based, project-based, and problem-solving learning. This will create an environment for applying engineering concepts to “real” problems and prepare students to: solve problems, work in a team setting, lead groups, conduct research, analyze data, and understand real-world impacts. This class is designed for 10th thru 12th grade students, particularly for those students entering technical fields, engineering, design, or construction. Students may earn college credit through Rochester Institute of Technology if all requirements are met and reduced tuition fee is paid.

DIGITAL ELECTRONICS (DE)

1 year – 1 credit

Prerequisite: Successful completion of DDP, Algebra and Geometry

Open to grades 10-12

Digital electronics is a course of study in applied digital logic. Students will study the application of electronic logic circuits and devices. Strong connections will be made to mathematics, as Boolean methods of algebra and logic will govern the solution of problems. Watches, calculators, video games, and computers all have such circuits. The use of smart circuits is present in virtually all aspects of our lives, and its use is increasing rapidly, making digital electronics an important course of study for a student exploring a career in engineering or engineering technology. Students will test and analyze simple and complex digital multi-meters, etc. Students will also use computer simulation to learn about the logic of electronics as they design, test, and actually construct circuits and devices. Students may earn college credit through Rochester Institute if all requirements are met and the reduced tuition fee is paid.

CIVIL ENGINEERING & ARCHITECTURE (CEA)

1 year – 1 credit

The major focus of this course is completing long-term projects that involve the development of property sites. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of a property. The course provides students with the freedom to develop the property as a simulation or for students to model the experiences that civil engineers and architects face. Students work individually or in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture including estimating and calculating building needs and budgets. In addition, students use 3D design software to help them design solutions to solve major course projects. Students learn about documenting their project through detailed drawings, solving problems, and communicating their solutions to their peers. Students may earn college credit through Rochester Institute of Technology if all requirements are met and the reduced tuition fee is paid.

WOODWORKING I

½ year – ½ credit

Woodworking is a hands-on course in the study of wood and the products made from this renewable resource. Students will have the opportunity to familiarize themselves with several types of domestic hardwoods, their characteristics and common uses for each species. Students will be able to safely use several woodworking power tools and hand tools to create and build a project made of wood. Other areas of study may include joinery, adhesives and fasteners used in woodworking, abrasives, and wood finishes. This course may be taken as an elective by 9th thru 12th graders.

ADVANCED WOODWOODING

½ year – ½ credit

Prerequisite: Successful completion of Woodworking I and instructor recommendation

Advanced woodworking will be a continuation of the skills and projects from Woodworking I. Students will work primarily independently and will guide their course of study by choosing the projects they wish to complete. Students will have the opportunity to create larger scale projects when they are ready and have developed the necessary skills. Students taking this course must be able to set goals for themselves and manage their time to complete projects within the allotted amount of time.

INTRO TO COMPUTER SCIENCE

½ year - ½ credit

In Intro to Computer Science, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them

VEX ROBOTICS

½ year - ½ credit

VEX Robotics Curriculum is divided up into twelve primary units and one optional unit. In a flexible format, students learn about engineering and engineering problem solving. They will be given introductions to the VEX Robotics Design System and Autodesk® Inventor® while learning key STEM principles through a process that captures the excitement and engagement of robotics competition. The curriculum is heavily focused on mechatronic principles; as such, programming is not required.

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 Choir, Select Choir, Jazz Band and many varied small vocal and instrumental ensembles. The student also has an opportunity to take class instrumental lessons, class voice lessons and Fundamentals of Music Theory.

MUSIC IN OUR LIVES

1 year - 1 credit

Music in Our Lives is designed to give students an understanding and appreciation for a wide variety of music. A survey of performers and composers of various periods of music history are examined and many different styles of music from different cultures and time periods are introduced and explored. Basic music appreciation is the focus via hands-on experiences. No prior musical experience is necessary. This course satisfies the graduation requirement of one credit of high school art and/or music.

CONCERT CHOIR

1 year – ½ credit

Weekly voice lessons and concert participation required

The chorus is open to any student in the high school 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, sight singing and basic musical skills.

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.

SELECT CHOIR

1 year – ½ credit

Co-Requirement: Membership in Concert Choir

This course is designed to explore difficult choral repertoire, enhance listening abilities and teach advanced vocal technique in a small ensemble. The Select Choir will be made up of students through either teacher selection or an audition process. The ensemble will be expected to perform at events outside of the school day. This course satisfies ½ of the graduation requirement of one credit of high school art and/or music. Students will need to re-audition annually to remain in the group.

PERFORMING ARTS I

1 year – 1 credit

This course is designed to introduce students to drama and theatre arts. Through study materials, live theatrical performances, and hands on experience, students will explore their capabilities in acting, public speaking, movement, set design and construction, and technical stagecraft, the history of theater and script development. This course satisfies the graduation requirement of one credit of high school art and/or music.

PERFORMING ARTS II

1 year – 1 credit

Prerequisite: Performing Arts I

Performing Arts II is a more in-depth study of theater including theater history, stage make-up, set design, directing and stage management, theatrical casting and stage combat.

PERFORMING ARTS III

1 year – 1 credit

Prerequisite: Performing Arts I & II and Teacher Recommendation

Performing Arts III is a study and hands on experience in theatrical directing and production. Students will assist in leading basic acting exercises with new theater students, selecting scripts, directing and producing in house theatrical productions with their peers. The course will be co-seated with Performing Arts I.

MUSIC THEORY I/II

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 and 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. This course satisfies ½ of the graduation requirement of one credit of high school art and/or music.

SENIOR HIGH JAZZ BAND

1 year – ½ credit

Prerequisite(s): Concert Band

**Requirement(s): Participation in Concert Band
Concert Participation
Individual Weekly Practice**

The Senior High Jazz Band is open to 9th – 12th grade students who participate in the High School Concert Band. **Exceptions** to this rule will be considered by the band director if one or all of the positions of the rhythm section are not filled. (Rhythm section includes drum set, guitar, bass guitar and piano). Those who are interested in playing in the rhythm section and who are NOT in concert band, may audition for one of these positions. Students who would like to audition can make arrangements with the band director to do so. The goal of the Jazz Band is to advance the musical skills of developing students and to explore the art and style of jazz which includes improvisational techniques. This course satisfies ½ of the graduation requirement of one credit of high school art and/or music.

ART COURSE DESCRIPTIONS

STUDIO ART

1 year - 1 credit

This class covers many fundamentals in the visual arts. Topics covered include: the elements and principles of art, color theory, art history, techniques, critiques, and art vocabulary. 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 materials and techniques in art. Students will explore a variety of media including: drawing, painting, printmaking, and ceramics, along with many more. This course is for those students considering an art sequence and is a prerequisite for all other full year art courses. Each marking period there are graded sketchbook assignments, although the majority of their grade is based on projects done in class. Students are required to purchase a sketchbook and permanent markers for this course. This class satisfies the graduation requirement for one credit of Art/Music.

DRAWING AND PAINTING I

1 year - 1 credit

Prerequisite(s): Studio Art

This course concentrates on strengthening drawing and painting skills and explores concepts that were introduced in Studio Art in greater depth. Students will begin to develop their personal style and skills as they apply what they have learned to charcoal, colored pencils, pastels, watercolor, and acrylic paint, among other media. The majority of the year will be spent creating

two-dimensional pieces, although some three-dimensional media may be explored, with an emphasis on painting. Each marking period there are graded sketchbook assignments, 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 permanent markers for this class.

DRAWING AND PAINTING II

1 year - 1 credit

Prerequisite(s): Studio Art and Drawing & Painting I

Throughout this course students will continue to expand their knowledge in the elements and principles of art as a means of exploring creative problem solving using a wide variety of media. Students will work to not only improve skills, but develop mastery in concept, composition, and execution of design. Working with the teacher, students will design the concepts behind many of their own projects based on what their portfolio is currently lacking to ensure the creation of a well-rounded portfolio. All projects will be finished in a professional manner, with pieces being mounted or matted, and information about portfolio requirements for applying to colleges will also be provided. Each marking period there are graded sketchbook assignments, although the majority of the grade is based on projects. Students are required to purchase a sketchbook and permanent markers for this class.

Drawing and Painting III

1 year - 1 credit

Prerequisite(s): Studio Art, Drawing & Painting I, Drawing & Painting II

Throughout this course students will continue to expand their knowledge in the elements and principles of art as a means of exploring creative problem solving using a wide variety of media. Students will work to not only improve skills, but develop mastery in concept, composition, and execution of design. Working with the teacher, students will design the concepts behind many of their own projects based on what their portfolio is currently lacking to ensure the creation of a well-rounded portfolio. All projects will be finished in a professional manner, with pieces being mounted or matted, and information about portfolio requirements for applying to colleges will also be provided. Each marking period there are graded sketchbook assignments, although the majority of the grade is based on projects. Students are required to purchase a sketchbook and permanent markers 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 may

also have the opportunity to learn how to throw a piece of pottery on a potter's wheel. The design skills learned in Studio Art are expanded through new media in this class. Historical and cultural aspects of sculpture, a working knowledge of art vocabulary, and assessment strategies will be emphasized throughout the course. The majority of time will be spent creating three-dimensional work, with some time spent drawing and planning out projects as well.

COMPUTER GRAPHICS

½ year - ½ credit

In Computer Graphics students will explore the potential of digital imaging, computer software, and creating graphic effects, along with many other computer imaging techniques. The two-dimensional design skills learned in Studio Art will be expanded through digital media in this class. Students will have the opportunity to create and manipulate digital imagery from various sources. Topics covered include digital photography, scanning images, using appropriate internet content, and incorporating fonts into design, among others. A firm understanding of Adobe Photoshop will be established.

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 whether it is 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 DESCRIPTIONS

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, snowshoeing, roller-skating, golf, ultimate Frisbee, weight training, self-defense, dance, 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.

STRESS REDUCTION

½ year – ½ credit

Research has shown that there are several strategies that can be used to reduce and manage the amount of stress in our lives. Throughout this course, we will explore many of these strategies and the benefits that go along with them. We will spend time identifying the specific mental, physical and emotional benefits of reducing stress while searching out effective and fulfilling strategies to meet one's needs. Some of the strategies include breath training, journaling, money and time management, nutrition, assertiveness training, art and humor therapy, and a variety of physical exercises as well.

SPORTS OFFICIATING

½ year – ½ credit

This course will allow students to gain a foundational understanding of sports officiating. Students will learn how to communicate and interpret game rules, how to use correct signals and mechanics to communicate, and the psychology of officiating. Focus sports may include soccer, basketball, volleyball, or those pertaining to the specific time of year.

ONLINE COURSE OPPORTUNITIES

There are a number of online courses available to our students including but not limited to: Anthropology, Coastal Ecology, Forensic Science, Oceanography, and Wellness and Nutrition. Students can discuss these opportunities with their counselor. Courses must be approved by administration before enrolling.

21st CENTURY TECHNOLOGY COURSES – MARION HIGH SCHOOL

Students must meet academic and attendance criteria to attend this new opportunity.

COMPUTER GENERATED IMAGES

½ year – ½ credit

This course is an introduction to exploring the potential of multimedia computer software, special graphic effects and computer imaging techniques.

TECH TOOLS

½ year – ½ credit

In the class students learn about Web 2.0/3.0 tools that will help with their class work. This course will teach students the various ways they can present information in new and innovative ways using up-to-date technology and web resources.

MAC FOR BEGINNERS

½ year – ½ credit

This course is an introduction to the Macintosh platform that includes navigating the Mac interface, installing and using applications for Mac, using iLife (Garage Band, iPhoto, iMovie and iWeb), and iWork (Pages, Numbers and Keynote) and connecting peripherals. The course will also focus on the iLife Suite (iPhoto, iMovie, iDVD, iWEB and Garageband), but there will be many projects that will allow students to learn how to use the Apple products to their fullest extent.

OPPORTUNITIES AT WAYNE TECHNICAL & CAREER CENTER (WTCC)

<http://www.waynetechcenter.org/programs.cfm>

1 year - 4 potential credits

Students must meet academic and attendance criteria to attend WTCC. All Career and Technical courses, except Cosmetology, can be taken for one year as elective credit or as part of an Occupational Education sequence. College credit is available for some WTCC programs.

ANIMAL SCIENCE - The Animal Science Program prepares students for a wide range of careers related to animal care. Students receive instruction in veterinary care, nutrition, animal anatomy, physiology and animal behavior. The classroom houses many domestic and exotic pets. Students operate a grooming parlor that is used as a learning model for the handling and caretaking of animals.

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.

CARPENTRY - A two-year sequence intended to develop skills in the use of tools and equipment practices commonly employed in the area of carpentry. Students earn OSHA 10

certification. Students build a variety of large projects on and off campus as part of their experience.

NETWORK TECHNICIAN - In the Network Technician Program students acquire the hands on technical expertise to become valuable IT professionals. In addition to the practical experience, students prepare for industry standard certification exams. Students study computer hardware, operating systems, servers and networking. The highest performing students will have the opportunity to put their knowledge to work in exciting internship opportunities at local companies.

COMPUTER PROGRAMMING AND VIDEO GAME DESIGN - The program enables students to learn to be software developers or video game programmers. Students learn the essentials of programming and practice their skills by writing their own computer games. Students are taught concepts from geometry, trigonometry, and algebra needed to model real world physics in their games.

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.

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. This program provides students the work experience and classroom learning they need to succeed in restaurant/food service careers. Students will have the opportunity to earn their ServSafe Managers certification.

EDUCATION PROFESSIONS – Students enrolled in the Education Professions Program at WTCC will be immersed into a culture that expands their knowledge of the many varied career opportunities available in the field of education. Students will create age-appropriate lesson plans and interact with young children in the center’s community-based, on-site preschool. Students

will also choose from a selection of off-site work-based learning rotations in their specific fields of interest. Completing seniors may be eligible to apply for Level I NYS Teacher Assistant Certification.

ELECTRICAL TRADES – Students will be prepared for entry-level employment in the various electrical trades. Throughout the program, students gain daily practical experience working with residential, commercial and industrial wiring in addition, the students will have the opportunity to experience training to become a Network Cabling Specialist.

HEALTH DIMENSIONS - A one year program that provides the basic knowledge and competencies considered common to careers in the health field. Students will explore many areas of employment through discussion, field trips and hands-on experiences before choosing a specialized course of study. Students take part in summer clinical experience that provides the additional training and education requirements needed to sit for the NYS Nurse Assistants Exam and may include exploration of, and exposure to additional health related careers.

AME ADVANCED MANUFACTURING AND ENGINEERING – Over the two year program students are exposed to Precision Machining Computer Aided Design and Welding Technologies, experiencing the interaction of multiple technologies in a real manufacturing environment and from field trips to local industries. All students will follow approved industry methods and engineering standards while learning to fabricate industry specific metal products.

POWER MECHANICS - In Power Mechanics, students learn the maintenance and repair of diesel and gasoline vehicles, farm machinery, earth-moving equipment and small power equipment used in agriculture, conservation and landscaping. Basic skills are developed in welding/fabrication and troubleshooting.

CONSERVATION - In the Conservation Program your “classroom” can be in the forest one day and the local park the next. Students are introduced to the career areas in heavy equipment operation/maintenance and forest management. They will learn skills in landscaping, forestry, fish and wildlife management. Students will also have the opportunity to compete in the annual Conservation competition. Students will earn their OSHA 10 card and forklift certification. They will have the opportunity to prepare for a New York State Commercial Driver’s License (CDL class B). The Conservation Program also runs a successful on-campus greenhouse.

NEW VISION MEDICAL – This program 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. The program places students in a hospital setting with access to all hospital operations. Application required.

NEW VISION NURSING SCIENCES- This program blends the academics and career education aimed at high school seniors with an interest in the nursing profession. Students will rotate throughout the year in a number of different departments at Newark Wayne Community Hospital working directly with healthcare professionals. This program provides seniors with the opportunity to explore the nursing profession within an interdisciplinary environment to gain insight into the role of nursing in healthcare. Students in the program develop the skills and knowledge needed for the rapidly growing healthcare industry. Application required.

NEW VISION VETERINARY ASSISTANT - The New Vision Veterinary Science Program is designed to provide high school seniors the opportunity to intensely investigate future college and professional career pathways within the field of Veterinary Science. Both theory and hands-on experiences are introduced in the Veterinary Science program. New Vision Veterinary Science students earn certification as a veterinary assistant. Application required.

Williamson High School Activities and Clubs

Clubs

Spanish Club	Robotics
Newspaper Club	International Club/Model UN
French Club	Future Business Leaders of America (FBLA)
Ski Club	Volunteer Club
Yearbook	Literature Circle
MasterMinds	Art Club
GSA (Gay Straight Alliance)	

Leadership Opportunities

Student Council	Class Projects
Class Officer	Link Crew

Extra-Curricular Events

Band and Chorus Performances

- Marching Band
- Pit Band (musical)
- Solo Festivals
- Drill Team
- Jazz Ensemble

School Musical and/or Drama

- Performers
- Ushers
- Set Design/Construction
- Graphic Arts
- Technical Crew
- Stage Crew

Sports

	<u>Boys</u>	<u>Girls</u>
Fall	Cross Country Soccer Volleyball (with Sodus)	Cross Country Soccer Volleyball
Winter	Basketball Cheerleading Indoor Track Wrestling Swimming (with Sodus) Alpine Skiing (with Sodus)	Basketball Cheerleading Indoor Track Swimming (with Sodus)
Spring	Baseball Track Tennis Golf	Softball 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.