



Von Steuben Metropolitan Science Center

Course Guide

2010-2011

It should be recognized that all information in the catalog are subject to revision, and, from time to time, changes are made in course offerings, academic rules and the plan of instruction. Information contained herein supersedes that previously published and is subject to change.

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VON STEUBEN VISION AND MISSION STATEMENTS

Von Steuben Vision Statement

We envision a school that fosters a culture of responsibility built on scientific thinking.

Our graduates will succeed in and contribute to a competitive and ever-changing world.

Von Steuben Mission Statement

Our purpose is to prepare all students for an ever-changing cultural and technological world.

We employ scientific approaches to teaching and learning. We collaborate across disciplines to design curriculum and deliver instruction to support student achievement at or above grade level.

We insist on a culture of responsibility and opportunity for achievement built by all students, parents, teachers, staff and administrators.

The expectation of involvement, self-discipline, and mutual respect extends to all members of our school community.

ENGLISH DEPARTMENT

REQUIREMENT: FOUR YEARS REQUIRED FOR GRADUATION

Grade 9	Grade 10	Grade 11	Grade 12
English I R	English II R	English III R	English IV R
English I H	English II H	English III H	English IV H
English I S	English II S	AP English Literature and Composition	AP English Literature and Composition
		AP English Language and Composition	AP English Language and Composition
Grade 9 Electives	Grade 10 Electives	Grade 11 Electives	Grade 12 Electives
Electives	Drama I R	Drama I R	Drama I R
Journalism R	Journalism R	Drama II R	Drama II R
Written and Oral Communication R	Journalism: Yearbook I H	Journalism R	Journalism R
	Journalism: Newspaper I H	Journalism: Yearbook I H	Journalism: Yearbook I H
	Written and Oral Communication R	Journalism: Yearbook II H	Journalism: Yearbook II H
		Journalism: Newspaper I H	Journalism: Yearbook III H
		Journalism: Newspaper II H	Journalism: Newspaper I H
		Film Study R	Journalism: Newspaper II H
		TV Production R	Journalism: Newspaper III H
			Film Study R
			TV Production R

12710	REG	ENGLISH I	1 CREDIT
12713	HON	ENGLISH I	1 CREDIT
15110	SCHOLARS	ENGLISH I	1 CREDIT

This course is a study of literary genres. Students will read novels, short stories, drama, poetry and nonfiction. The departmental sequential writing program covers narrative, expository, descriptive and persuasive essays. In addition, fundamental research skills will be developed. The honors program assumes the student is above average in reading ability, desires more challenging literature and can move faster through developmental writing skills.

04910	REG	ENGLISH II	1 CREDIT
04913	HON	ENGLISH II	1 CREDIT
15120	SCHOLARS	ENGLISH II	1 CREDIT

This course is a survey of American Literature from the colonial period to the modern age. The writing skills developed in English I will be expanded continuing along the departmental sequential writing program. The honors program assumes the student can read and write more in depth on selected authors from the extensive supplemental paperback library. Independent library research will be expected.

Prerequisite: Survey Literature, Level recommended by Survey Literature teacher

Honors level: grade A or B in previous English classes, good attendance in previous years (more than 3 absences in any quarter could disqualify you from honors level.)

13130	REG	ENGLISH III	1 CREDIT
15130	HON	ENGLISH III	1 CREDIT

This course is a survey of British Literature from Anglo-Saxon times to the present. Vocabulary and writing skills developed in the first two years will be expanded continuing along the departmental sequential writing program. Preparation for the English section of the A.C.T. examination will be included. For HON students, independent study and library research will be expected.

Prerequisite: 11th grade standing, American Literature

Honors level: grade A or B in previous English classes, good attendance in previous years (more than 3 absences in any quarter could disqualify you from honors level.)

13140	REG	ENGLISH IV	1 CREDIT
15140	HON	ENGLISH IV	1 CREDIT

This course is designed to present to students some of the literary achievements of modern world literature. The writing skills developed in English I, II and III will be expanded in accordance with the departmental sequential writing program. This course will include experiences with the literatures and arts of Europe, Africa, the Middle East and the Far East. Honors students will have additional reading and writing assignments.

Prerequisite: 12th grade standing, *British Literature*

Honors level: grade A or B in previous English classes, good attendance in previous years (more than 3 absences in any quarter could disqualify you from honors level.)

13310	REG	DRAMA I	1 CREDIT
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This course is designed to introduce students to various types of plays, stage techniques, performance, and production. Students in this class will read plays, perform plays, and attend performances. This class will focus on the elements of drama; the study of acting, scene study, monologue, original performance, and the characteristics of theatre.

Prerequisite: *Must be taken concurrently with another English course, 10th, 11th or 12th grade standing*

13320	REG	DRAMA II	1 CREDIT
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This course is designed for students to further the understanding of drama to various types of plays, stage techniques, performance, and production. Students in this class will read plays, perform plays, and attend performances. This class will focus on the elements of drama; the study of acting, scene study, monologue, original performance, and the characteristics of theatre.

Prerequisite: *Must be taken concurrently with another English course, 11th, 12th grade standing and Drama I*

13210	REG	JOURNALISM	1 CREDIT
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An introduction to all aspects of the journalist's craft: reporting, writing, photography and broadcasting. The history of journalism and the critical issues facing today's profession will be explored. Students may earn the opportunity to publish in the school newspaper.

Prerequisite: *Must be taken concurrently with another English course and open to any grades.*

15610	HON	JOURNALISM: YEARBOOK I	1 CREDIT
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Students in this course publish the school yearbook, *Visions*. As editors, reporters, and photographers, students will choose areas of the school to cover and how they will be produced.

Prerequisite: *Must be taken concurrently with an English course, and 10th, 11th or 12th grade standing.*

15620	HON	JOURNALISM: YEARBOOK II	1 CREDIT
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Prerequisite: *Must be taken concurrently with another English course, successful completion of Journalism Yearbook I with a grade of C or better and 11th grade standing.*

15630	HON	JOURNALISM: YEARBOOK III	1 CREDIT
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Prerequisite: *Must be taken concurrently with another English course, successful completion of Journalism Yearbook I and II with a grade of C or better and 12th grade standing.*

15910	HON	JOURNALISM: NEWSPAPER I	1 CREDIT
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Students in this course publish the school newspaper, the *Panther Press*. As editors, reporters, and photographers, students will choose the stories to cover and how they will be produced. Students interested in multimedia may explore online publishing the paper in print and audio.

Prerequisite: *Must be taken concurrently with an English course, successful completion of Journalism with a grade of C or better and, 10th, 11th or 12th grade standing.*

15920	HON	JOURNALISM: NEWSPAPER II	1 CREDIT
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Prerequisite: *Must be taken concurrently with another English course, successful completion of Journalism Newspaper I with a grade of C or better and 11th or 12th grade standing.*

15930 HON JOURNALISM: NEWSPAPER III 1 CREDIT

Prerequisite: Must be taken concurrently with another English course, successful completion of Journalism Newspaper I and II with a grade of C or better and 12th grade standing.

19510 REG FILM STUDY 1 CREDIT

In this course, students will be introduced to different aspects of film and film-making. Students will look at film history, directing, cinematography, editing, sound, set design, and genre. Students will learn to view film critically; read and analyze writing about film; and respond to films through thoughtful writing and oral presentations.

Prerequisite: Must be taken concurrently with another English course, 11th or 12th grade standing.

10610 REG TV PRODUCTION 1 CREDIT

This course will introduce students to the basics of creating their own films. Students will develop skills in everything from inventing story ideas and writing screenplays to learning digital video and advanced editing techniques. In addition, students will learn to work in teams and to add their own expertise to the larger group in order to create one product. There is a \$25 lab fee that helps cover the cost of equipment upkeep. Fee must be paid in full for student to remain in the course.

Note: Must be taken concurrently with another English course and 11th or 12th grade standing

16910 REG WRITTEN/ORAL COMMUNICATION 1 CREDIT

In this skills based course, students gain the practice and experience necessary in tackling college-level reading, writing and speaking. Study includes literature, the majority of which is non-fiction, and writing for a variety of purposes. Students must be prepared to set individual goals and work collaboratively, sharing their insights with other writers.

Prerequisite: 9th, 10th, grade standing

Advanced Placement classes at Von Steuben are the equivalent of an introductory college course. Students enrolled in an AP course are expected to undertake the challenge of an increased reading and work load, more independent work, and extended writing assignments. All students enrolled in an AP course will take the Advanced Placement exam in May.

17110 ADV ADVANCED PLACEMENT ENGLISH: LITERATURE AND COMPOSITION 1 CREDIT

This is a college level course that engages students in the careful reading and critical analysis of imaginative 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. Students will take the Advanced Placement Exam.

Prerequisite: Grades of A or B in previous English classes, good attendance in previous years (more than three absences in any quarter could disqualify you.) and 11th or 12th grade standing.

17310 ADV ADVANCED PLACEMENT ENGLISH: LANGUAGE AND COMPOSITION 1 CREDIT

Students in A.P. English Language and Composition will read and analyze a wide range of non-fiction prose, from many historical contexts, with an emphasis on developing an awareness of how language and rhetoric work. Course readings feature expository, analytical, personal, and argumentative texts. Through close reading and frequent writing, students will develop a strong awareness of author purpose and audience, as well as the resources of language: diction, imagery, syntax and tone. Students will take the Advanced Placement Exam.

Prerequisite: Grades of A, B or C in AP English Literature and Composition, good attendance in previous years (more than three absences in any quarter could disqualify you.) 11th and 12th grade standing.

Social Studies Department

REQUIREMENT: THREE YEARS REQUIRED FOR GRADUATION

Grade 9	Grade 10	Grade 11	Grade 12
World Studies R	U.S. History R	AP European History	
World Studies H	U.S. History H	AP Government: United States	
World Studies S	U.S. History S	Contemporary American History R	
	AP U.S. History	Contemporary American History H	
		American Government R	
		Economics R	
		Economics H	
		Law and Society R	
		Sociology R	
		History of Chicago R	
		Humanities R	
		World Geography	
Grade 9 Electives	Grade 10 Electives	Grade 11 Electives	Grade 12 Electives
	AP Human Geography	AP Human Geography	AP Human Geography
		AP U.S. History	AP U.S. History
			A. P. Government: United States
			Contemporary American History R
			American Government R
			Economics R
			Economics H
			Law and Society R
			Popular Cultures R
			Sociology R
			History of Chicago R
			Humanities R
			World Geography R

23110	REG	WORLD STUDIES	1 CREDIT
25110	HON	WORLD STUDIES	1 CREDIT
25410	SCHOLARS	WORLD STUDIES	1 CREDIT

World Studies is a course which allows for integration of the five Social Science State Goals: Government, Economics, History, Geography, and Social Systems. The goal of the course is to engage students in a global approach of historical inquiry in order to master content of the five state goals. This survey course is arranged around 14 topics, beginning with the rise of civilization and ending with the world in the 1990's. Non-European as well as European civilizations will be discussed. Core documents and readings are an integral part of the curriculum. Students will be required to do research projects.

23610	REG	U.S. HISTORY	1 CREDIT
25610	HON	U.S. HISTORY	1 CREDIT
23617	SCHOLARS	U.S. HISTORY	1 CREDIT

This is a survey course that presents an overview of the political, economic, social, and cultural development of the nation from the American Revolution to present times. It contains a government unit designed to prepare students for the U.S. and Illinois Constitution test. Students are required to complete a project for the Chicago Metropolitan History Fair. Independent library research will be expected.

23810	REG	CONTEMPORARY AMERICAN HISTORY	1 CREDIT
25810	HON	CONTEMPORARY AMERICAN HISTORY	1 CREDIT

This course examines the Cold War and anti-Communism, the struggles for equality and diversity; the decline of party politics and the liberal tradition; the Vietnam War; the effect of the World Community and the United Nations on American Foreign Policy; and the new issues confronting America and the world in the 21st century. This course deals in depth with modern issues in American domestic and foreign policy since World War II.

Prerequisite: 11th or 12th grade standing.

23030 REG AMERICAN GOVERNMENT 1 CREDIT

This course is the study of American governing institutions at the national, state, and local level. Topics will include: the Constitution, voting, pressure groups, Congress, the presidency and administration of state and local governments. Passing this course satisfies the U.S. and Illinois Constitution test requirement for graduation.

Prerequisite: 11th or 12th grade standing.

23910 REG ECONOMICS 1 CREDIT

25910 HON ECONOMICS 1 CREDIT

This course is designed to provide students with a better understanding of our economic system. Utilizing economic theories, students investigate the causes of economic problems and determine the implications of proposed solutions. The goal is to help students acquire skills necessary to function effectively and efficiently as consumers, entrepreneurs or workers in today's society. Students will also learn basic principles of financial management and investing.

Prerequisite: 11th or 12th grade standing.

23210 REG WORLD GEOGRAPHY 1 CREDIT

The goal of this course is to introduce students to the major concepts of World Geography. The focus will be on looking at people and their ways of life as well as studying the physical features of the earth's many regions.

Prerequisite: 11th or 12th grade standing.

28010 REG LAW AND SOCIETY 1 CREDIT

tbd HON LAW AND SOCIETY 1 CREDIT

Learn the law from the lawyer's perspective. Course topics will include criminal, juvenile, civil, consumer and constitutional law. A special component of the course is the mock trial, a trial simulation and competition in which all law students participate during the third quarter; practicing lawyers coach the class and trials are adjudicated by judges and lawyers. Class also includes visits by lawyers and other law-related presenters. This is an excellent class for anyone interested in a law-related career.

Prerequisite: 11th or 12th grade standing

29910 REG SOCIOLOGY 1 CREDIT

Why do people act so strangely? This course is concerned with the relationship between individuals and the social structures and groups to which they belong. In other words, sociologists try to find out why people in groups behave the way they do. The discipline of sociology assumes that external social forces influence and shape individual behavior. Students will identify, understand, and explain what those forces are and how they shape behavior within social groups. In the end, the concepts covered in this course will help us make sense of many global issues ranging from war and peace to crime and sexuality to poverty and the environment. It will enhance our understanding of the complexity of diverse social conditions as well as our appreciation for the common threads that nevertheless bind all humans together.

Prerequisite: 11th or 12th grade standing

26310 REG HISTORY OF CHICAGO 1 CREDIT

Students will investigate the people and events that changed Chicago from a marshy area of Indian dwellers to the major metropolitan, multi-ethnic, cultural center that it is today. Topics include Chicago's legends, neighborhoods, politics, business, crime, architecture, sports and entertainment. Maps, charts, and documents will be examined. Individual, team and group activities culminate in field trips to local sites. Students will participate in the Chicago Humanities Festival as part of their curriculum.

Prerequisite: 11th or 12th grade standing

29610 REG HUMANITIES 1 CREDIT

HON HUMANITIES 1 CREDIT

Humanities are those areas of thought and creation whose subject is the human experience. They include history, philosophy, religion, and the arts. This course intends to develop culturally aware students who will be well prepared for college-level material in the Liberal Arts and Sciences. The course will consist of a theoretical/philosophical foundation in the Greco-Roman tradition of Socrates, Plato, and Aristotle. By carefully examining several distinct periods, the course aims to show the evolution and metamorphosis in the defining of both the Humanities and the individual. Students will be expected to participate and incorporate the valuable resources available to them that include the Humanities Festival.

Prerequisite: 11th or 12th grade standing

SCIENCE DEPARTMENT

REQUIREMENT: THREE YEARS REQUIRED FOR GRADUATION

Grade 9	Grade 10	Grade 11	Grade 12
Biology R	Chemistry R	Physics H	
Biology H	Chemistry H	Physics R	
Biology S	Chemistry S		
Grade 9 Electives	Grade 10 Electives	Grade 11 Electives	Grade 12 Electives
		AP Biology	AP Biology
		AP Chemistry	AP Chemistry
		AP Environmental Science	AP Environmental Science
		AP Physics	AP Physics
		Anatomy-Physiology R	Astronomy
		Forensic Science H	Behavioral Science R
			Forensic Science H
			Anatomy-Physiology R
			Earth/Space Science R
			Environmental Science R

31510	REG	BIOLOGY	1 CREDIT
31513	HON	BIOLOGY	1 CREDIT
35210	SCHOLARS	BIOLOGY	1 CREDIT

This course is the study of plants and animals and their life functions. Topics include molecular chemistry, cytology, evolution, structure and function, genetics and ecology. This course includes laboratory experience. Honors level students are required to complete a science fair project.

31520	REG	CHEMISTRY	1 CREDIT
31523	HON	CHEMISTRY	1 CREDIT
35410	SCHOLARS	CHEMISTRY	1 CREDIT

This course is the study of atomic theory, gas laws, liquid and solid structure, thermo chemistry, kinetics, enthalpy, acid-base chemistry and pH, ionic equilibrium, oxidation-reduction, the mole concept, nuclear chemistry and elementary organic chemistry. Students in honors program will have increased mathematical applications in the treatment of laboratory data. Honors level students are required to complete a science fair project.

Prerequisite: Algebra and Biology

REG: a minimum grade of C in regular Algebra.

HON: a minimum grade of B in Honors Algebra or an A in regular Algebra.

33310	REG	PHYSICS	1 CREDIT
35310	HON	PHYSICS	1 CREDIT

This course includes investigations of the areas of mechanics, energy and its conservation, astronomy, relativity, sound, light, electricity, magnetism, atomic theory and the history and philosophy of science. This course is structured around the application of principles through laboratory experiences. Honors physics covers the same topics but goes into greater depth and involves more mathematics. Honors level students are required to complete a science fair project.

Prerequisite (Regular): Grade of C or better in Algebra or teacher recommendation

Prerequisite (Honors): Grade of B or better in Algebra, Geometry and Chemistry for Honors level and current science teacher recommendation

33510 REG EARTH/SPACE SCIENCE 1 CREDIT

Earth/Space Science is the study of the interrelationships between the atmosphere, the geosphere, the hydrosphere, the biosphere and the earth-universe system. Students will develop knowledge and understanding of the earth system and its place in the universe, in order to make better informed personal and social decisions related to quality of life and management of the Earth's finite resources, environments, and hazards.

Prerequisite: 11th or 12th grade standing.

Succeeding courses: Anatomy-Physiology, Physics

33910 REG ENVIRONMENTAL SCIENCE 1 CREDIT

Environmental Science is a study of the dynamic interactions of matter and energy on the planet Earth. Students will examine environmental issues using the scientific method. Study of ecosystems, water, land and air resources, pollution, and populations are included. Honors Environmental Science covers the same topics but goes into greater depth. Honors level students are required to complete a science fair project.

Prerequisite: 11th or 12th grade standing, grade B or better in preceding science classes

39110 REG ANATOMY - PHYSIOLOGY 1 CREDIT

This course is the study of the relationship of anatomical structures of humans to their physiological processes. It includes the study of systems of the body, dissections of mammalian tissues and an examination of diseases. **Students must purchase a \$95 lab manual that will serve as a guide for in-class experiences. Students who have not purchased the lab manual prior to March 1 will not be permitted to remain in the course.** The manual must be paid in full or the student will be dropped from the course prior to scheduling.

Prerequisite: 11th or 12th grade standing

34510 REG ASTRONOMY 1 CREDIT

Astronomy seeks to apply many different concepts from Regular or Honors Physics. Learn how a telescope works and then observe the moon, planets, and stars with your own eyes. Students will study our own solar system, the sun and other stars of our Milky Way galaxy. The life-cycle of stars is examined, including supernovae, neutron stars, and black holes. The Big Bang, the expansion, and possible fate of the Universe is considered, as is the potential for extraterrestrial intelligence.

Prerequisite: Physics and 12th grade standing.

31210 REG BEHAVIORAL SCIENCE 1 CREDIT

The primary objective of the course is to investigate methods for the study of behavior from the scientific perspective. Emphasis will be placed on a neuropsychological approach. Topics covered will include influence of genetics and evolution, nervous system, senses and perception, information processing, learning theory, memory, thinking and cognition, emotions and motivation, personality theories, and social and group processes.

Prerequisite: 12th grade standing, grade of C or better in Biology, Chemistry, Physics, Earth Science or Environmental Science.

30210 HON FORENSIC SCIENCE 1 CREDIT

Forensic science will be a thought-provoking course that would challenge students to perform at a high academic level. Major topics include the disposition of toxic compounds and metabolism of foreign compounds. Toxicological effects on anatomical organs will be studied. The final major topic will cover forensic science careers, forensic scientific methods and its application in society.

Prerequisite: 11th or 12th grade standing.

Advanced Placement classes at Von Steuben are the equivalent of an introductory college course. Students enrolled in an AP course are expected to undertake the challenge of an increased reading and work load, more independent work, and extended writing assignments. All students enrolled in an AP course will take the Advanced Placement exam in May.

37210 ADV ADVANCED PLACEMENT BIOLOGY 1 CREDIT

A college level course in the biological sciences that consists of lecture/discussions and extensive laboratory work. Major topics will include molecules and cells, heredity and evolution, and organisms and populations. Students will take the Advanced Placement Exam. This course must be taken along with Science Lab: Biology, a credit-bearing honors lab.

Prerequisite: Grade of B or better in Biology, Chemistry and English, recommendation of current science teacher, and 11th or 12th grade standing. **(More than three absences in any quarter may disqualify students for registration in any A.P course).**

30001 HON SCIENCE LAB: BIOLOGY 1 CREDIT

This course is the lab component of an Advanced Placement course. It is an honors level lab that provides students with various opportunities of learning. According to the College Board website, "Lab experience is integral to the AP Biology course because it completes the learning process that begins with the lectures and discussions in the classroom. Students must have lab experience if they are going to achieve the desired level of comprehension of a concept, theme, topic, or skill, let alone demonstrate to the college of their choice that they have had the equivalent of a complete college introductory-level biology course experience."

37410 ADV ADVANCED PLACEMENT CHEMISTRY 1 CREDIT

This college level chemistry course is designed to enhance problem-solving skills, develop the ability to express ideas clearly and logically, improve laboratory skills and give a firm mathematical foundation in the science of chemistry. Topics will include stoichiometry, gas laws, acid-base, energy, atomic theory, solution equilibria and reaction kinetics. Students will take the Advanced Placement Exam. This course must be taken along with Science Lab: Chemistry, a credit-bearing honors lab.

Prerequisite: Grade of B or better in Algebra, Geometry, Chemistry and Physics (Physics may be taken concurrently) and recommendation of current science teacher. (More than three absences in any quarter may disqualify students for registration in any A.P course).

30003 HON SCIENCE LAB: CHEMISTRY 1 CREDIT

This course is the lab component of an Advanced Placement course. This lab time is devoted for students to fully understand chemistry topics and their applications to practical situations. Students will connect what is learned in the chemistry classroom with what is learned during the laboratory time to better understand the study of chemistry at a college level.

37610 ADV ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE 1 CREDIT

This college level course is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Students will take the Advanced Placement Exam. This course must be taken along with Science Lab: Environmental Science, a credit-bearing honors lab.

Prerequisite: Grade B or better in Biology, Chemistry, and Algebra, and recommendation of current science teacher, and 11th or 12th grade standing. (More than three absences in any quarter may disqualify students for registration in any A.P course).

30004 HON SCIENCE LAB: ENVIRONMENTAL SCIENCE 1 CREDIT

This course is the lab component of an Advanced Placement course. It is an honors level lab that provides students with opportunities to: "learn and practice scientific methods; observe nature in operation; design experiments; form and test hypotheses; collect and analyze data; interpret results; and organize and communicate findings to others," according to the College Board website.

37310 ADV ADVANCED PLACEMENT PHYSICS 1 CREDIT

This college level physics course is a rigorous program for students who have a deep interest in physics. The aim is to further develop the students understanding of the laws of physics and the application of these laws to the physical world. Topics will include mechanics, electricity, magnetism, fluid mechanics, thermal physics, waves & optics, and atomic & nuclear physics. Students will take the Advanced Placement Exam. This course must be taken along with Science Lab: Physics, a credit-bearing honors lab.

Prerequisite: Grade B or better in Advanced Algebra Trig or Advanced Algebra Trig with Pre-calculus, Physics, and recommendation of current teacher, and 11th or 12th grade standing. (More than three absences in any quarter may disqualify students for registration in any A.P course).

MATHEMATICS DEPARTMENT

REQUIREMENT: THREE YEARS REQUIRED FOR GRADUATION

Grade 9	Grade 10	Grade 11	Grade 12
Algebra I H	Geometry H	Advanced Algebra-Trigonometry H	AP Calculus
Algebra I R	Geometry R	Advanced Algebra-Trigonometry R	AP Statistics
		Pre Calculus	College Algebra-Elementary Functions H
		College Algebra-Analytic Geometry R College Algebra-Elementary Functions H	College Algebra-Analytic Geometry R

Typical Path for Freshmen *with* Algebra Credit:

Grade 9	Grade 10	Grade 11	Grade 12
Geometry	Advanced Algebra-Trigonometry H	AP Calculus AP Statistics	AP Calculus AP Statistics
	Advanced Algebra-Trigonometry R	College Algebra-Elementary Functions H	College Algebra-Elementary Functions H
	Pre Calculus	College Algebra-Elementary Functions H	College Algebra-Elementary Functions H

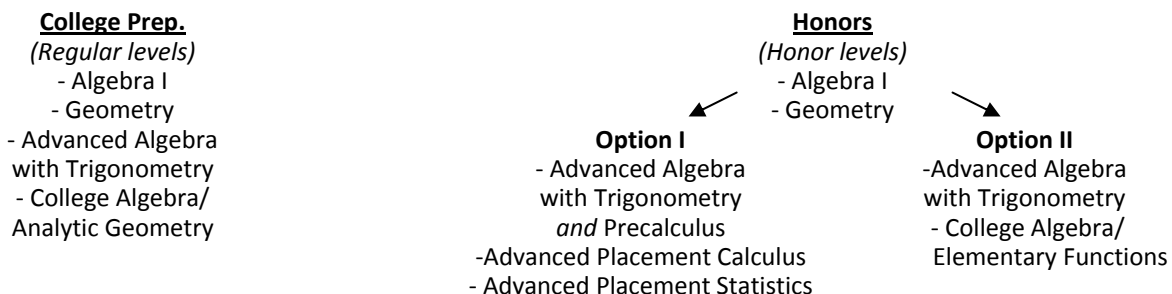
Typical Path for Freshmen *without* Algebra Credit (non-Honors):

Grade 9	Grade 10	Grade 11	Grade 12
Algebra I H	Geometry H	Advanced Algebra-Trigonometry H	College Algebra
Algebra I R	Geometry R	Advanced Algebra-Trigonometry R	

Typical Path for Freshmen *without* Algebra Credit (Honors or Scholars):

Grade 9	Grade 10	Grade 11	Grade 12
Algebra I H or S	Geometry H or S	Advanced Algebra-Trigonometry H or R Pre Calculus Classes taken concurrently	AP Calculus AP Statistics
OR			
Algebra I H or S	Geometry H or S	Advanced Algebra-Trigonometry H or R	AP Statistics

Options of progress for math students



41310	REG	ALGEBRA I	1 CREDIT
41313	HON	ALGEBRA I	1 CREDIT
45310	SCHOLARS	ALGEBRA I	1 CREDIT

This course is the first in a sequence of three classes required for graduation. Topics covered will include simplifying expressions, solving equations and inequalities as well as graphing linear and quadratic equations. Solutions of systems of equations will be studied with applications. The study of polynomials will include laws of exponents, scientific notation, factoring, and the quadratic formula.

49710	REG	GEOMETRY	1 CREDIT
49713	HON	GEOMETRY	1 CREDIT
45410	SCHOLARS	GEOMETRY	1 CREDIT

This course will develop the student’s ability to think creatively and critically in both mathematical and non-mathematical situations. Proofs and step-by-step analysis of problem solving are learned.

Prerequisite: Algebra. **Honors:** Minimum grade of C in Honors Algebra and recommendation of current math teacher.

43210 REG ADVANCED ALGEBRA - TRIGONOMETRY 1 CREDIT

45210 HON ADVANCED ALGEBRA - TRIGONOMETRY 1 CREDIT

This course is a two semester course which has algebra and geometry as prerequisites. It is the final required course in a three course sequence. It is designed to develop the advanced algebraic and geometric concepts and processes that can be used to solve a variety of real-world and mathematical problems. In addition to the introduction of the trigonometric and logarithmic functions algebraically, the focus becomes geometric in the solution of triangles and other applications.

Prerequisite: *REG: Algebra and Geometry*

HON: Algebra and Geometry with minimum grade of A in Regular Algebra 1 or minimum grade of C in Honors Geometry & Honors Algebra and recommendation of current math teacher.

NOTE: *Students must have completed both semesters of Algebra and Geometry to be placed in Advanced Algebra./Trigonometry*

46813 HON PRE-CALCULUS 1 CREDIT

In this course, students will continue to develop their mathematical thinking skills and explore advanced mathematical topics from numerical, graphical, symbolic, and verbal viewpoints. First semester, students will focus on the analysis and application of trigonometric, polynomial, rational, exponential, and logarithmic functions. Second semester, students will explore matrices, sequences and series, analytical geometry, and an introduction to the calculus concepts of limits and derivatives.

Prerequisite: *B average in Honors Algebra and Honors Geometry and recommendation of current math teacher*

Succeeding courses: *College Algebra, Advanced Placement Calculus or Advanced Placement Statistics.*

43910 REG COLLEGE ALGEBRA - ANALYTIC GEOMETRY 1 CREDIT

This course is designed to enhance the student's math skills for college. Topics include real numbers, complex numbers, graphing, theory of equations, systems of equations, sequences and series, advanced trigonometric topics and conic sections.

Prerequisite: *Advanced Algebra with a minimum grade of C and recommendation of current math teacher.*

45910 HON COLLEGE ALGEBRA - ELEMENTARY FUNCTIONS 1 CREDIT

This course is designed for students who intend to pursue fields of study that apply advanced mathematical concepts. The first semester deals with conic sections, sequences, polar equations along with advanced applications. The second semester is an introduction to differential calculus.

Prerequisite: *Honors Advanced Algebra / Pre-Calculus with a minimum grade of B and recommendation of current math teacher.*

Succeeding courses: *Advanced Placement Calculus, Advanced Placement Statistics*

Note: *It is recommended that students seeking placement in honors currently be in an honors class.*

Advanced Placement classes at Von Steuben are the equivalent of an introductory college course. Students enrolled in an AP course are expected to undertake the challenge of an increased reading and work load, more independent work, and extended writing assignments. All students enrolled in an AP course will take the Advanced Placement exam in May.

47210 ADV ADVANCED PLACEMENT CALCULUS AB 1 CREDIT

This advanced mathematics course will include derivatives and their applications, local and absolute maxima and minima values, concavity, related rates and optimization of functions. Second semester will focus on integral calculus with applications to area and volume. Students will take the Advanced Placement Exam (AB).

Prerequisite: *Honors College Algebra or Pre Calculus with a minimum grade of C and recommendation of teacher. (More than three absences in any quarter may disqualify students for registration in any A.P course).*

47410 ADV ADVANCED PLACEMENT STATISTICS 1 CREDIT

The centerpiece of this course is a thorough examination of concepts dealing with the collecting, representation and analysis of data. Students must be able to master the ability to clearly present their analysis in a coherent and rigorous fashion. This course is designed to cover those topics which are necessary to perform well on the AP Statistic Exam.

Prerequisite: *Advanced Algebra, Pre-Calculus, College Algebra minimum grade of B and recommendation of current math teacher. (More than three absences in any quarter may disqualify students for registration in any A.P course).*

COMPUTER SCIENCE DEPARTMENT

REQUIREMENT: ONE YEAR OF COMPUTER SCIENCE IS REQUIRED

Grade 9	Grade 10	Grade 11	Grade 12
Computer Information Technology R	Information Technology R	Computer Software Applications I R	AP Computer Science (Java Programming)
Computer Information Technology H	Computer Science I R (Visual Basics)	Computer Science II R (Java Programming)	Computer Software Applications II R
			Computer Science III R (HTML)

71910 REG COMPUTER INFORMATION TECHNOLOGY 1 CREDIT

This course is designed to prepare students for the practical use of technology and stimulate their interest in the use of current computer technology. The course provides an introduction to basic concepts of word-processing, spreadsheet, and presentation applications, Internet related activities and development of typing skills. The course includes integrated career exposure/exploration components, which provide career awareness.

71913 SCHOLARS COMPUTER INFORMATION TECHNOLOGY 1 CREDIT

This course prepares students for the practical use of technology to stimulate their interest in the use of computer technology. The course covers the basic concepts and some advanced features of word processing, spreadsheet, and presentation applications so students can complete cross curricular assignments. Using Internet-related skills, students learn how to prepare an MLA formatted paper as part of their research paper. In addition, basic numbering systems, logic circuit design and hardware/software operations are introduced. Students who complete this course earn honors credit.

THREE YEAR COMPUTER SEQUENCE

Students enroll in one sequence for three years

<u>OPTION 1: Information Processing</u>	<u>OPTION 2: Computer Programming</u>
Information Technology	Computer Science I
Computer Software Applications I	Computer Science II
Computer Software Applications II	Computer Science III

66810 REG INFORMATION TECHNOLOGY (WORD, EXCEL, POWERPOINT) 1 CREDIT

This course builds upon freshman Info Tech classes taking students into the more advanced capabilities of Word and Excel. In addition, there is heavy emphasis on database structures. An integrated software package including a word processor, electronic spreadsheet, graphics, and electronic presentation programs are used. Skills acquired in this class facilitate the successful completion of research and presentation projects assigned in core courses; are helpful tools in college; and increase employability aptitude. Students prepare for and are encouraged to take the MCAS certification in this course.

Prerequisite: 10th grade standing

Succeeding courses: Computer Software Applications, Computer Software Applications II

73510 REG COMPUTER SOFTWARE APPLICATIONS I (DESKTOP PUBLISHING) 1 CREDIT

Desktop publishing uses special software and printers to produce professional-looking flyers, event tickets, and booklets for publication. This course allows students to progress from relatively easy applications of page design, such as producing a flyer, to developing a full-blown publication. Realistic projects throughout the school year will provide students with experiences that utilize desktop publishing concepts. The integration of graphics and text is stressed throughout the course. During the course, students are provided opportunities to participate in job shadowing and internships. Students prepare for and are encouraged to take the MCAS certification in this course.

Prerequisite: Information Technology, 11th grade standing

73520 REG COMPUTER SOFTWARE APPLICATIONS II (WEB PAGE DESIGN) 1 CREDIT

This course builds on previous computer skills. Web Pages/Sites are created using but not be limited to Dream Weaver and Photoshop/Image Ready. Students have access to the internet for research and publication, learn fundamental researching strategies, retouch photos and learn to animate graphics. Students prepare independent projects incorporating photographs, dynamic images and page design into web pages on topics that integrate computer applications across the curriculum for an engaged learning component. During the course, students are provided opportunities to participate in job shadowing and internships. Students prepare for and are encouraged to take the MCAS certification in this course.

Prerequisite: Information Technology, Computer Software Applications and 12th grade standing

79810 REG COMPUTER SCIENCE I (VISUAL BASIC PROGRAMMING) 1 CREDIT

Like math and logic? Would you rather create game animations rather than play them? This course, using Visual Basic and Alice, presents programming concepts and techniques utilizing the sciences and applied mathematics to learn how a computer actually performs calculations, searches and sorts data. Throughout this course, vocational ethics, general skills, transition skills and job skills are integrated.

Prerequisite: 10th grade standing

Succeeding courses: Computer Science II, Computer Science II

79820 REG COMPUTER SCIENCE II (JAVA PROGRAMMING) 1 CREDIT

This course enhances computer programming techniques presented in the Visual Basic Programming course. This is an introductory course in the JAVA language. Advanced programming techniques are presented. This course provides the fundamentals necessary for transition to the Advanced Placement Computer Science course. During the course, students are provided opportunities to participate in job shadowing and internships.

Prerequisite: Computer Science I, and 11th grade standing

Succeeding courses: Computer Science III

79830 REG COMPUTER SCIENCE III (HTML PROGRAMMING) 1 CREDIT

What are all those tags that make a website work? This course introduces HTML programming basics, the code behind the creation of web pages. Students incorporate graphics, links, page design techniques, and multimedia into the development of web pages. In addition, students learn how to enhance web pages using cascading style sheets and JavaScript to add dynamic capabilities to web sites. During the course, students are provided opportunities to participate in job shadowing and internships.

Prerequisite: Computer Science I, Computer Science II and 12th grade standing

Advanced Placement classes at Von Steuben are the equivalent of an introductory college course. Students enrolled in an AP course are expected to undertake the challenge of an increased reading and work load, more independent work, and extended writing assignments. All students enrolled in an AP course will take the Advanced Placement exam in May.

47610 ADV ADVANCED PLACEMENT COMPUTER SCIENCE (JAVA) 1 CREDIT

This college-level computer science course emphasizes programming methods using Java. Java is the vehicle for implementing computer-based solutions to real problems. JAVA provides a standard mechanism for emphasizing and implementing computational ideas. It includes the study of algorithms, data structures, and data abstraction. The primary purpose of the course is to provide a conceptual background in computing and computer science. Students enrolled in this course take the Advanced Placement exam. Students will take the Advanced Placement Exam.

Prerequisite: B in previous Computer Science courses or 12th grade status (**More than three absences in any quarter may disqualify students for registration in any A.P course).**

WORLD LANGUAGES DEPARTMENT

REQUIREMENT: TWO YEARS OF THE SAME LANGUAGE

If your child selects a foreign language for his/her freshman year he/she is committed to taking the same language for four consecutive years.

Grade 9	Grade 10	Grade 11	Grade 12
Chinese I H	Chinese II H	Chinese III H	Chinese IV H
Chinese I R	Chinese II R	Chinese III R	Chinese IV R
	Chinese I H		
	Chinese I R		
French I H	French II H	AP French Language and Composition	AP French Language and Composition
French I R	French II R	French III H	French IV H
	French I H	French III R	French IV R
	French I R	French II H	French III H
		French II R	French III R
			French II H
			French II R
Spanish I H	Spanish II H	AP Spanish Language and Composition	AP Spanish Language and Composition
Spanish I R	Spanish II R	AP Spanish Literature	AP Spanish Literature
Spanish for Spanish Speakers I H	Spanish for Spanish Speakers II H	Spanish II H	Spanish III H
Spanish for Spanish Speakers I R	Spanish for Spanish Speakers II R	Spanish II R	Spanish III R
	Spanish I H	Spanish III H	Spanish IV H
	Spanish I R	Spanish III R	Spanish IV R
	Spanish for Spanish Speakers I H	Spanish IV H	Spanish for Spanish Speakers III H
	Spanish for Spanish Speakers I R	Spanish IV R	Spanish for Spanish Speakers III R
		Spanish for Spanish Speakers II H	
		Spanish for Spanish Speakers II R	
		Spanish for Spanish Speakers III H	
		Spanish for Spanish Speakers III R	

54010 REG	CHINESE I	1 CREDIT
54013 HON	CHINESE I	1 CREDIT

Note: Class cannot be taken as an elective

In Chinese I, students will learn to understand, speak, read, and write basic Mandarin Chinese with an emphasis on communicative skills. Students will be able to take part in conversations about family, friends, nationalities, hobbies, dates, time, weather, and directions. Writing and pronunciation will begin with the pinyin phonetic system. Students will also learn to write basic Chinese characters. By the end of the course, they will be able to read 300 frequently used characters. Language study will include exploration of the history and culture of China, with opportunities for special activities outside of the classroom.

54020 REG	CHINESE II	1 CREDIT
54023 HON	CHINESE II	1 CREDIT

This course welcomes those who have passed Chinese I to build on vocabulary, communication skills, and cultural understanding. Students will be able to take part in conversations about travel, jobs, routines, and schedules, as well as conduct phone calls, discuss past experiences, and give speeches. Students will build on practical writing skills and will increase their reading vocabulary to at least 700 frequently used characters.

54030 REG	CHINESE III	1 CREDIT
54033 HON	CHINESE III	1 CREDIT

In this course, students will review and expand on vocabulary and structures learned in previous Chinese classes. They will talk about personal interests, describe things in more detail, and relate experiences. Emphasis will be placed on real life communication and comprehending real Chinese resources like letters, comics, movies, web pages, advertisements, and short stories. In addition, students will continue to learn about and experience different aspects of Chinese culture.

53210	REG	FRENCH I	1 CREDIT
55210	HON	FRENCH I	1 CREDIT

This class welcomes any student who is interested in learning French language and culture. Through listening, speaking, reading and writing activities, you will become familiar with vocabulary necessary to deal with everyday situations in French. Students will explore cultural aspects of many different French-speaking areas while comparing them to the many different cultures of Von Steuben. Students will be able to practice activities on the text publisher’s website. Students will view classic French films, videoconference with different French speakers around the world, taste some classic French cuisine, and participate in field trips that enhance the learning of French.

Note: Class cannot be taken as an elective

53220	REG	FRENCH II	1 CREDIT
55220	HON	FRENCH II	1 CREDIT

In the second year of French you will review and build on the vocabulary themes and language structures covered in French I. New themes include the house, parts of the body, health, nature, and films. While learning new vocabulary you will also explore the cultures of French speaking areas in Europe, Canada, Africa, and the Caribbean. Various listening, speaking, reading and writing activities will help you function in French in authentic language use situations. Videoconferencing, internet activities, films, and field trips will enhance your classroom learning experience.

53230	REG	FRENCH III	1 CREDIT
55230	HON	FRENCH III	1 CREDIT

In this third year course students will review and build on vocabulary and structures covered in French I and II. Students will be able to read short stories and create fun dialogues. They will read excerpts from French-speaking writers, watch some classic French films, and continue learning about the various French-speaking cultures all over the world. Video conferencing, internet activities, and field trips will provide students with opportunities to improve their French outside of the classroom.

Prerequisite: Honors level requires recommendation of French instructor

53240	REG	FRENCH IV	1 CREDIT
55240	HON	FRENCH IV	1 CREDIT

This advanced course builds on previous language skills learned in levels I, II and III. The emphasis will be on oral reproduction, pronunciation and more complex grammatical structures. This course will focus on all levels of language such as listening, speaking, writing and reading. Another important feature will be the exploration of the diverse and rich French-speaking world. Video conferencing, internet activities, and field trips will provide students with opportunities to improve their French outside of the classroom.

Advanced Placement classes at Von Steuben are the equivalent of an introductory college course. Students enrolled in an AP course are expected to undertake the challenge of an increased reading and work load, more independent work, and extended writing assignments. All students enrolled in an AP course will take the Advanced Placement exam in May.

57210	ADV	ADVANCED PLACEMENT FRENCH LANGUAGE & COMPOSITION	1 CREDIT
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This Advanced Placement program encompasses all the elements of proper grammar, creative writing, reading comprehension, speaking and listening skills. Students will take the Advanced Placement Exam.

Prerequisite: French II and recommendation of French instructor. (More than three absences in any quarter may Disqualify students for registration in any A.P course).

53810	REG	SPANISH I	1 CREDIT
55810	HON	SPANISH I	1 CREDIT

This course is designed to introduce non-native Spanish-speaking students to basic functional proficiency in Spanish with an emphasis on vocabulary development. Students will learn basic conversational topics, such as greetings and farewells, making descriptions of yourself and others, finding out information, talking about one’s family, ordering food, identifying personal belongings, identifying public buildings and places, making plans, making purchases, etc. The course enhances four skills: listening, speaking, reading and writing. The emphasis is on student-student and student-teacher interactions to stimulate real-world situations.

Note: Class cannot be taken as an elective

53820	REG	SPANISH II	1 CREDIT
55820	HON	SPANISH II	1 CREDIT

This intermediate course is designed to introduce students to more advanced grammar structures in Spanish with an emphasis on sentence structure and verb tenses. It continues to enhance and further develop the four basic skills: listening, speaking, reading and writing. Students will be able to speak and write in the present tense, past tense, and future tense plus the use of high frequency irregular verbs. Students will be able to read long passages and write paragraphs and short essays. The course focuses on the communicative based approach that emphasizes fluency. As a result, students will engage in oral skits that model common real life situations.

53830	REG	SPANISH III	1 CREDIT
55830	HON	SPANISH III	1 CREDIT

This advanced course builds on previous language skills learned in levels I and II. The emphasis will be on oral reproduction, pronunciation and more complex grammatical structures. This course will focus on all levels of language such as listening, speaking, writing and reading. Another important feature will be the exploration of the diverse and rich Spanish-speaking world.

53840	REG	SPANISH IV	1 CREDIT
55840	HON	SPANISH IV	1 CREDIT

This course is an advanced rigorous course designed to help you enhance and apply the language skills you have already learned in Spanish I-III. Students will continue developing their speaking, listening, writing and understanding of the Spanish language through a communication-based program. Students will be required to perform various activities in Spanish to enhance their proficiency including a study of the Spanish culture. This course will be taught predominantly in Spanish and all students are expected to use Spanish in every aspect of the course.

54810	REG	SPANISH FOR SPANISH SPEAKERS I	1 CREDIT
54813	HON	SPANISH FOR SPANISH SPEAKERS I	1 CREDIT

This course is for Spanish speakers who understand some basic Spanish but do not necessarily read or write the language. Students will work on basic grammar structures, vocabulary, writing and conversational skills and will explore the cultures of the Spanish speaking world.

Honors Prerequisite: Recommendation of current world language teacher.

54820	REG	SPANISH FOR SPANISH SPEAKERS II	1 CREDIT
54823	HON	SPANISH FOR SPANISH SPEAKERS II	1 CREDIT

This course is for Spanish speakers who are able to speak, read and write Spanish at the basic to intermediate level. The focus is on intermediate grammar structures, vocabulary expansion, written compositions and students will continue to work with literary texts and continue to explore the cultures of the Spanish speaking world.

Prerequisite: Satisfactory completion of level I or recommendation of current world language teacher.

Honors Prerequisite: Spanish Honors 1 or recommendation of current world language teacher.

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57810	ADV	ADVANCED PLACEMENT SPANISH LANGUAGE & COMPOSITION	1 CREDIT
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This college-level course encompasses all the elements of proper grammar, creative writing, reading comprehension, oral discourse (presentations), and listening skills. Students will take the Advanced Placement Exam

Prerequisite: Spanish for Spanish Speakers plus recommendation of Mr. Herrera, Ms. Rivas or Mr. Galiano. (More than three absences in any quarter may disqualify students for registration in any A.P course).

57910	ADV	ADVANCED PLACEMENT SPANISH LITERATURE	1 CREDIT
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An AP Spanish Literature course is comparable to a third-year college introduction to Hispanic literature course. It is based on a required reading list. The works on the list are of literary significance and represent various historical periods, literary movements, genres, geographic areas, and population groups within the Spanish-speaking world. The objective of the course is to help you interpret and analyze literature in Spanish.

FINE ARTS DEPARTMENT

**REQUIREMENT: ART OR DRAFTING -AND-
MUSIC, BAND, OR CHORUS**

Grade 9	Grade 10	Grade 11	Grade 12
Art R	AP Studio Art	AP Studio Art	AP Studio Art
Drafting R	AP Art History	AP Art History	AP Art History
	Art R	Art R	Art R
	Drafting R	Drafting R	Drafting R
General Music R	General Music R	General Music R	General Music R
Beginning Band R	Advanced Band R	Advanced Band II R	Advanced Band III R
	Intermediate Band R	Intermediate Band	Advanced Band II R
	Beginning Band R	Advanced Band R	Advanced Band I R
Beginning Mixed Chorus	Advanced Mixed Chorus	Vocal Music (Recommendation Required)	Vocal Music Recommendation Req)
	Beginning Mixed Chorus	Advanced Mixed Chorus (Recommendation Req)	Advanced Mixed Chorus Recommendation Req)

91510 REG ART 1 CREDIT

Open to all levels. This course introduces the students to drawing, painting, sculpture, and other media. It includes analytical and technical skills focusing on art elements and principles of art. Students also develop the ability to understand art history, and appreciate art aesthetics, art criticism and learn about the changing career field of art. *Students are required to purchase basic art supplies.*

90210 REG STUDIO ART – DRAWING / PAINTING 1 CREDIT

This is an advanced Art class for students who are interested in a more concentrated study of art. This course involves advanced instruction in drawing and painting, including work in pastel, charcoal, conte crayon, pencil (colored), tempera, watercolor, and acrylic techniques. Projects will involve problems that require originality and creativity and will include an introduction to commercial art.

Prerequisite: Art and recommendation of art teacher

91610 ADV ADVANCED PLACEMENT STUDIO ART 1 CREDIT

This college-level course is intended for the advanced student, who plans to pursue art as a career. Students are required to do work outside the classroom in preparation for Advance Placement Portfolio evaluation. The portfolio requires development of breath, quality and one of these concentrations, drawing, 2 dimensional or 3 dimensional work. Each student creates a formal presentation by using slides, matting and mounting their art works. *Students are required to submit their Advanced Placement Portfolio to the College Board and enter in the All City Art Fair.*

Prerequisite: Art, Studio Art, and recommendation of art teacher

90010 ADV ADVANCED PLACEMENT ART HISTORY 1 CREDIT

This college-level course studies art history and requires museum and gallery visits. Students develop the ability to understand and appreciate the visual arts from prehistoric times through contemporary movements. Paintings, sculpture, architecture, and photography are examined in lecture, discussion, readings, slides, films, and tapes. Students also further develop their aesthetics and art criticism skills through viewing works of Western art of the Middle ages, Renaissance, Romantic, Cubism, Dada, Surrealism, Abstract Expressionism, Pop and Post-Modernism. *Students are required to take the Advanced Placement Art History examination.*

Prerequisite: 11th or 12th grade standing

62510 REG DRAFTING 1 CREDIT

Drafting introduces the student to technical and scientific drawing skills. The student will also learn how to do problem analysis and problem solving. This course will include an introduction to computer aided drafting (CAD) on Auto Cad 2002.

Note: Class cannot be taken as an elective.

95510 REG GENERAL MUSIC 1 CREDIT

This course is a study of basic music components, music history, music reading and listening. The course objective is to enhance the student's overall understanding and appreciation for the performing arts.

93810 REG BEGINNING BAND 1 CREDIT

Students will learn to play various instruments of their choice (except for string instruments). Prior music experience is welcomed, but not required. Public performances with the band are required. *Freshman and sophomore students only*

94810 REG INTERMEDIATE BAND 1 CREDIT

Students in their second year of instrumental instruction, demonstrate instrumental proficiency by performing secondary parts in contests, assemblies and evening programs. Public performances with the band are required.

Prerequisite: Recommendation of Mr. Walker

95810 REG ADVANCED BAND I 1 CREDIT

Students increase their knowledge of their instrument, and play more difficult music. Solo and ensemble participation is encouraged. Public performances with the performing group are required.

Prerequisite: Intermediate instrumental technique and recommendation of Mr. Walker

95820 REG ADVANCED BAND II 1 CREDIT

Students increase their knowledge of instrumental performance and performance techniques. Students must play primary or first parts in all performing groups. Solo, ensemble, contest and public performances are required.

Prerequisite: Advanced instrumental proficiency and recommendation of Mr. Walker

95830 REG ADVANCED BAND III 1 CREDIT

Students increase their knowledge of instrumental performance and performance techniques. Students must play primary or first parts in all performing groups. Solo, ensemble, contest and public performances are required.

Prerequisite: Advanced instrumental proficiency and recommendation of Mr. Walker

95610 REG BEGINNING MIXED CHORUS 1 CREDIT

Students learn the techniques of group singing through appropriate choral literature. Chorus may be substituted for general music as a graduation requirement. Students are required to perform in contest, assemblies, and evening programs. This class is designed for Freshmen and Sophomores.

Prerequisite: Freshman and Sophomores

96610 REG ADVANCED MIXED CHORUS 1 CREDIT

Students, in their second year of vocal music, learn advanced vocal techniques and choral literature. Concert Choir is enrichment elective. Students are **required** to perform in contest, assemblies, and evening programs. Entrance is by audition with Mr. Gabor. Only students who pass the audition are allowed into the group. Students should have completed Beginning Chorus prior to taking advanced chorus but exceptions can be made on the strength of the audition.

Prerequisites: Audition

94010 REG VOCAL MUSIC 1 CREDIT

Students in their third and fourth year of vocal music learn advanced vocal techniques and choral literature. Vocal Music is an enrichment class. Students are required to perform in contests, assemblies, and evening programs. Students can earn an honors credit in this class if they participate in the Chicago Public Schools Music Performance Festivals both solo and ensemble.

Prerequisite: Recommendation of Mr. Gabor

PHYSICAL EDUCATION DEPARTMENT

REQUIREMENT: TWO YEARS REQUIRED FOR GRADUATION

Grade 9	Grade 10	Grade 11	Grade 12
Physical Education and Health R	Physical Education and Health II (Drivers Ed) R	Physical Education III	Physical Education IV
			Physical Education III

98810	NON	PHYSICAL EDUCATION AND HEALTH – BOYS	1 CREDIT
98817	NON	PHYSICAL EDUCATION AND HEALTH - GIRLS	1 CREDIT

99020	NON	PHYSICAL EDUCATION AND HEALTH II - DRIVERS EDUCATION	1 CREDIT
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99030	NON	PHYSICAL EDUCATION III	1 CREDIT
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This course will introduce students to various individual and team sports with an emphasis on physical fitness and lifetime activities.

Prerequisite: 11th or 12th grade standing and recommendation of coach

99040	NON	PHYSICAL EDUCATION IV	1 CREDIT
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This course provides an understanding of the principles and benefits behind physical fitness through active weight training and sports. This course will take students through rigorous workouts and sports related activities.

Prerequisite: 12th grade standing and recommendation of current physical education teacher.

ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)

REQUIREMENT: Voluntary program for students who meet certain criteria detailed on AVID page at www.vonsteuben.org

Grade 9	Grade 10	Grade 11	Grade 12
AVID I	AVID II	AVID III	AVID IV
Avid I	AVID II	AVID III	AVID IV

19410 AVID I 1 CREDIT

Advancement Via Individual Determination (AVID) is an intensive program designed to increase schoolwide learning and performance for students grades 9-12. Its purpose is to open access to curricula that will ensure four-year college eligibility for the majority of students. The AVID program places academically “average” students in advanced level courses with support in the form of an AVID teacher, necessary writing and reading skills, college tutors and a proven curriculum. AVID students research colleges and careers before going on field trips to various institutions of higher learning. These students should expect two hours of studying per night for all classes, take Cornell notes in class every day and maintain a three-ring binder with class notes from each academic course.

Prerequisite: Application, interview and other requirements detailed online at www.vonsteuben.org and 9th or 10th grade standing

19420 AVID II 1 CREDIT

19430 AVID III 1 CREDIT

Advancement Via Individual Determination (AVID) students will continue to build on the successes realized in AVID I. This is year two of a four-year program. These students focus more on writing and College Readiness Standards (CRS) which will better prepare the students for various standardized examinations taken for college admissions. AVID students research colleges and careers before going on field trips to various institutions of higher learning. These students should expect two hours of studying per night for all classes, take Cornell notes in class every day and maintain a three-ring binder with class notes from each academic course.

Prerequisite: AVID I for AVID II, AVID II for AVID III

CITYWIDE PROGRAMS AND AFFILIATIONS

Gifted Programs

You must apply and be accepted for these classes through the Board of Education Gifted Office. These classes must be elected through consultation with your counselor. Applications may be obtained at: <http://www.37advanced.org/apply.html>.

Grade 9	Grade 10	Grade 11	Grade 12
	Shedd Aquarium	Art Institute Museology	Art Institute Museology
		Beverly Art Center	Beverly Art Center
		Field Museum	Field Museum
		Shedd Aquarium	Shedd Aquarium
		Chicago Police and Firefighters Academy	Chicago Police and Firefighters Academy
		Contemporary Sculpture: 3D Studio AP Portfolio Preparation	Contemporary Sculpture: 3D Studio AP Portfolio Preparation
		Studio Drawing and Painting: AP Portfolio Preparation	Studio Drawing and Painting: AP Portfolio Preparation
		Video Production: Digital Movie Making	Video Production: Digital Movie Making
		3-Dimensional Computer Modeling	3-Dimensional Computer Modeling
		Graphic Design: Visual Communication	Graphic Design: Visual Communication
		Dance Expressions: Modern, Jazz and Ballet	Dance Expressions: Modern, Jazz and Ballet
		Vocal Arts	Vocal Arts
		Theatre Arts	Theatre Arts
		Culinary Arts: Chef Training	Culinary Arts: Chef Training
		Photographic Explorations: AP Portfolio Preparation	Photographic Explorations: AP Portfolio Preparation
		Mixed Media: 2D and 3D	Mixed Media: 2D and 3D
		Jazz Performance	Jazz Performance

26912 ART INSTITUTE MUSEOLOGY CREDITS VARY

This is an elective social studies program that includes the history, function, and administration of the art museum as well as a study of the museum collections and art history. Lectures from staff members, behind-the-scenes tours, and field trips are included in the program.

15310 BEVERLY ART CENTER CREDITS VARY

A 30 week dramatic arts curriculum designed to enhance the student’s ability to perform, and increase each student’s understanding of drama (both classical and contemporary), play writing, acting, and production. The history and foundation of drama will be stressed and studied throughout the academic year. Alternative, contemporary, and multi cultural forms of dramatic performance will also be explored. The class will be goal-oriented, culminating in staged project productions.

36010 FIELD MUSEUM CREDITS VARY

This elective science program explores the many facets of the Field Museum collections that represent the fields of zoology, botany, geology, and anthropology. The program includes behind-the-scenes tours at the museum, visits with curators, and a chance to become acquainted with one of the world’s major natural history museums on a first-hand-basis.

35810 SHEDD AQUARIUM CREDITS VARY

This elective science program involves students in experimentation focusing on marine life. Aquarium resources are used to further student investigations into the ecological inter-balance between marine organisms and the effects of changes in the marine environment on these organisms.

CHICAGO POLICE & FIREFIGHTERS ACADEMY CREDITS VARY

This is a four-year program that begins in the junior year and continues with a two-year college component after high school graduation. Completion of the four-year program allows students to be eligible to become certified as police officers or firefighters. Participants will be placed in summer internships during July and August. The course is 1 credit per year with the option for 1 additional credit for attending college classes in criminal justice or fire safety. Students enrolled in C.P.F.T.A. are released from 8th period to attend the class after school.

Prerequisite: 11th and 12th grade with at least a 2.5 GPA, 90% attendance rate, and approval of counselor.

Gallery 37: Advanced Arts Education Program

The Chicago Public Schools' Gallery 37 Advanced Arts Education Program is designed to provide artistically talented students with in-depth instruction and career guidance from professional visual, performing, and culinary artists living and working in Chicago. At the conclusion of a year of study, two credits toward graduation are awarded to students who successfully meet the course objectives. Classes meet five days per week, from 2:00 pm. until 4:00 p.m., during the entire school year at the Gallery 37 Center for the Arts, 66 East Randolph Street **unless otherwise indicated in the description in red**. Students receive bus passes daily for travel purposes.

Students must see their counselor if they are interested in the following classes:

STUDIO DRAWING AND PAINTING: AP PORTFOLIO PREPARATION, SCHOOL OF THE ART INSTITUTE CREDITS VARY

Designed for students who want to prepare portfolios for AP credit and college applications. Students will produce art in a variety of media and from direct observation of the human figure, still life, and landscapes.

CONTEMPORARY SCULPTURE: 3D STUDIO AP PORTFOLIO PREPARATION, URBAN GATEWAYS CREDITS VARY

Designed for students who want to prepare portfolios for AP credit and college applications. Students will explore a variety of techniques in sculpture such as carving, casting, and modeling in a variety of materials like clay, wood, and metal.

PHOTOGRAPHIC EXPLORATIONS: AP PORTFOLIO PREPARATION, COLUMBIA COLLEGE CHICAGO CREDITS VARY

Designed for students who want to prepare portfolios for AP credit and college applications. Students will explore the vast creative possibilities of photography by learning techniques such as image generation, manipulation, editing, and printing.

MIXED MEDIA: 2D AND 3D, LILL STREET STUDIOS CREDITS VARY

This course explores the interaction of materials and techniques in media by using activities such as drawing, painting, sculpture, ceramics, and collage to express personal ideas and insights.

3-DIMENSIONAL COMPUTER MODELING, UNIVERSITY OF ILLINOIS AT CHICAGO CREDITS VARY

Students will explore the freedom of creating a "virtual world" by using state-of-the-art software and techniques from traditional art forms to make computer-animated films and 3D video games.

VIDEO PRODUCTION: DIGITAL MOVIE MAKING, UNIVERSITY OF ILLINOIS AT CHICAGO CREDITS VARY

Designed to allow students to produce dynamic and creative video programs utilizing state of the art technology in television studio production, field production, sound studio recording, and non-linear video editing with digital special effects.

GRAPHIC DESIGN: VISUAL COMMUNICATION, UNIVERSITY OF ILLINOIS AT CHICAGO CREDITS VARY

This course explores the complex field of visual communication by teaching students to use Adobe Photoshop, Adobe Illustrator, and QuarkXPress to design posters, logos, advertisements, publications, and websites.

DANCE EXPRESSIONS: MODERN, JAZZ AND BALLET, THE JOFFREY BALLET CREDITS VARY

Students will become disciplined and versatile dancers by acquiring the basic technique, coordination, and musical interpretation that are essentials of a classical training. They will study Modern and Jazz dance and ballet to learn proper posture and body placement.

VOCAL ARTS, CHICAGO SYMPHONY ORCHESTRA CREDITS VARY

Students will learn basic music reading, performance, and stage presentation skills while refining individual and group vocal techniques. Students will perform music in foreign languages while also learning techniques for vocal auditions.

THEATER ARTS, UNIVERSITY OF ILLINOIS AT CHICAGO CREDITS VARY

This course challenges students to explore the creative process of acting and provides students with new skills in performance, voice and speech, improvisation, and ensemble acting.

JAZZ PERFORMANCE, THELONIOUS MONK INSTITUTE OF JAZZ**CREDITS VARY**

Forming two jazz combos, the students explore and perform all styles of jazz from its inception to today, including Dixieland, swing, bebop, cool, hard bop, Latin, modal, free, fusion, and contemporary. Emphasis is placed on a working knowledge of standard jazz repertoire as well as the development of original compositions. Included is instruction in Jazz Improvisation, Theory, Composition, History, and Styles and Analysis.

CULINARY ARTS: CHEF TRAINING, ILLINOIS INSTITUTE OF ART**CREDITS VARY**

This course offers students the opportunity to learn culinary skills and creative presentation methods in a professional kitchen in preparation for a career in culinary arts. This class also offers proficiency credit for college.