



Hamilton

Community Consolidated School District # 328



COURSE DESCRIPTIONS CATLOUGE

(as of 01 AUG 2009)

ART DEPARTMENT

Art I (Elective) The study of the principles and elements of art. Using various mediums to accomplish quality projects, students are challenged with the use of line, texture, color, shape, form, value and space. They also learn the variables involved in creating artwork that has one or two of the components: balance, unity, pattern, rhythm, contrast, emphasis and movement. Students learn how to draw what they see and create three dimensional page. Drawing, painting are the emphasis. Art Shows and Duck Stamps are mandatory. The projects are aligned with the Illinois State standards for Fine arts.

Art II (Elective) The exploration of different mediums used in art. The class is a continuation of Art I with honing the student's drawing skills and the use of the principles and elements of design. Art contests, shows, and Duck Stamps are mandatory. Students will also research an artist of their choice and paint a duplicate of the master's work. Learning from the artist's style, the student develops other methods of art. Prerequisite: Art I.

Art III (Elective) Art III is the basic exploration of mediums and techniques using knowledge from the previous two classes. This is a portfolio based class and work is submitted to contests and competitions. The student studies oil, watercolor, pastel, printmaking, clay, and stained glass. Prerequisite: Art II.

Fine Arts (Elective) the study of Art history and its affect on the cultures of the time and on our culture. There are some required projects.

Computer Animation (Elective) First semester is devoted to learning the Photoshop program from tools to vectoring. As well as learning how to construct animations for flipbooks and for tweening. Also, we study the history of animation and look up different cartoons to evaluate. Second semester is learning all the methods of Flash animation and creating their own flash animation.

Water Color Painting (Elective) The concentrated study of Color Theory and painting. Students will complete at least three oil paintings and 15 water color paintings. Landscapes, animal and portraiture will be taught.

Calligraphy (Elective) The creation of art with lettering. Students learn the history of Fraktur writing, layout and placement of lettering for the best effect. Calligraphy II may be offered studying a wide variety of lettering styles.

Stained Glass (Elective) A class based on the history and creation of stained glass windows. Students learn to solder, use foil and come to create windows. They are required to do one etch window, one sun catcher, one box or some three dimensional form, a 12" window and a 24" window. They learn mosaicing as well. This is a technical use class with many safety cautions.

MUSIC DEPARTMENT

Band - (1/2 credit per year - elective) Students will be involved with:

CARDINAL MARCHING BAND - Performances at all home football games, parades, competitions, and Homecoming parade.

CONCERT BAND- All members must audition for chair placement at the end of Marching Band.

Band members participate in a variety of activities including Illinois High School Association Solo and Ensemble, large group contest and at least three major concerts annually.

BASKETBALL PEP BAND - performs for home basketball games.

JAZZ BAND - This group performs for various community functions and school activities as well as participating in contests each year. Rehearsals are typically in the evening or before school.

Chorus - (1/2 credit per year - elective) The chorus perform as a mixed chorus as well as dividing into girls' chorus and boys' chorus. Music is prepared for a variety of types of programming:

1. Pop and show music for local area performances
2. Illinois Music Educators' Association (IMEA) district auditions
3. Winter program
4. Organizational contest, Solo/Ensemble contest
5. Spring show/concert
6. Graduation exercises

LANGUAGE DEPARTMENT

1. English I (1 credit - **required**) Course covers basic communication and language art study skills, including grammar, composition, literature, and vocabulary. Emphasis is placed upon basic grammar, usage, mechanics, the short story, drama (including *Romeo and Juliet*), poetry, mythology, nonfiction, and the novel. Composition units focus on the process of writing.

2. English II (1 credit - **required**) Course concentrates on reading and analyzing a wide range of literature (including novels, short stories, drama, poetry), developing and refining writing skills, researching related topics, and learning to think critically. Increasingly sophisticated vocabulary and more complex assignments are required in English II. If a student has failed one semester of English I, he or she may take both courses concurrently. English I is a prerequisite.

3. English III (1 credit-**required**) is a survey of American literature from the Puritan and colonial eras through modern times. Students will participate in frequent reading assignments. Research about an American author or literary work will be required.

4. English IV (1 credit) is a survey of British literature. Students will read such works as *Beowulf*, *Macbeth*, and *The Canterbury Tales*. Research which explores a British author or literary work will be required for the course. **Highly recommended for college bound students.**

5. Resource English I, II, III, IV - Must have an IEP.

6. Creative Media (1 credit – elective) This course has been designed to incorporate yearbook, journalism, and at the end of the year, graphic and video media. Students will design and complete layout pages for the yearbook, as well as take photographs. Students will write journalism pieces for the school newsletter. Finally, students will put together a senior video of still images and recorded clips. Student will be held responsible for on-time work completion and participation will be a significant portion of the final grade. Participation includes but is not limited to: attending class on time and regularly, offering ideas and input in class, following instructions, not disrupting other classes when taking photographs, etc.)

7. Technical Communications (elective class-year course-one credit) This course is designed as a school-to-work course for those students seeking to enter the work force immediately after high school. All forms of writing including expository, narrative and persuasive writing will be covered along with writing to gain employment and writing in the workplace. Workplace etiquette, communication and technical reading skills will also be covered.

9. Spanish I (1 credit - elective) Introduction to Spanish language and culture, including conversation, listening, grammar and writing skills.

10. Spanish II (1 credit - elective) (Spanish I is a prerequisite.) Intermediate language class that stresses conversation, grammar, translations, and writing skills in Spanish.

11. Spanish III (1 credit – elective) (Prerequisite: Completion of Spanish I and Spanish II and Spanish III) Spanish III is taught almost entirely in Spanish. Students are expected to listen, speak and read and write almost totally in the target language. Culture, some literature and grammar will be emphasized as oral, written and listening skills are enhanced. Students should consider their language skills carefully before signing up for this class.

12. Spanish IV (1 credit – elective) (Prerequisite of Spanish I, II, and III) Will be with Spanish III for 2008-2009 year.

SCIENCE DEPARTMENT

Scope and Sequence for Science Classes at Hamilton High School

Class	Freshman	Sophomore	Junior	Senior
General Science	X	X		
Physical Science	X*	X*	X	
Biology 1	X	X		
Biology 2		X	X	
Chemistry		X	X	X
Anatomy and Physiology			X*	X
Physics				X
Research Class			X*	X*
Research/Science Olympiad	X	X	X	X

Arrow indicates direction of movement that student should follow when choosing classes.

General Science- (One credit – elective) General science will focus mostly on earth sciences, such as geology, astronomy, and meteorology. It will include some labs and activities, possibly outside the class room. Depending on class willingness, there may be some Saturday activities such orienteering. This class will not be considered preparatory for college. *Does not count as a lab science for college transcripts.*

Physical Science – (One Credit – elective) This course provides an introduction to concepts of physics, chemistry, earth science, and space science. Due to the use of equations and problems to teach various concepts, students should take Algebra 1 or 1-A before taking this class.

Biology 1 - (One Credit – elective) This course gives the student an understanding of life, cellular structure, seed plants, transpiration of plants, plant reproduction, invertebrates from the sponge through the insects, vertebrates from the fishes to the mammals. There will be dissections of the worm, clam, grayfish grasshopper, fish, frog and starfish. Physical Science is recommended.

Biology 2 - (One Credit – elective, prerequisite: Biology 1) This class begins with a review of the cell and then looks at the chemical basis of life. Much of the latest information is on the molecular especially in regards to genetics. Time will be spent learning genetics, and how our genes govern the functioning of our bodies. We will look at the science of genomics and traits passed down from one generation to the next. We will also be working in lab with some of the new technology like electrophoresis.

Chemistry - (One Credit – elective, concurrent enrollment in Algebra 2 required) Chemistry students will be introduced to chemical concepts and terminology. They will learn to apply the periodic table towards understanding chemical concepts and solving chemical problems, using chemical formulas.

Physics - (One Credit – elective, current enrollment in or have passed Algebra 2 required) Physics students will learn to apply formulas to solve physical science problems, and will understand the basic concepts surrounding these problems.

Anatomy and Physiology – (One Credit – elective, prerequisite; Biology 2) This class has been developed to provide students with a basic understanding of anatomical and physiological principles that underlie medicine, nursing, dentistry, and other related health professions. Students will dissect a cat.

Research Class – Level 1 – (One credit – elective; must be concurrently enrolled in another science class and a math class). (Prerequisite; Two years of science courses completed). Highly recommended for physics students in order to facilitate the research aspect of that class.

Research Class – Level 2 – (1/2 credit – elective). This class will be a study hall/science Olympiad preparatory class. During the “off season,” classroom time will be a study hall.

BUSINESS DEPARTMENT

1. Advanced Computer Applications - (One credit - elective- Soph., Jr., Sr.) Advance Computers is a project-based curriculum that teaches digital communication skills in context of the professional web design and development process, using Macromedia web tools. Skill areas covered are project management, design, research and communication and professional web authoring tools.
2. Recordkeeping - (1/2 credit - elective - Soph., Jr., Sr.) Recordkeeping is the gathering, recording, classifying, sorting, filing, computing, reporting and communicating of financial information that enables a student to make wise decisions about money. This course introduces the student to basic recordkeeping procedures that are necessary in business and personal use. Business areas include sales, purchases, cash receipts, cash payments, inventory, and payroll. This course can be used as preparation for Accounting I, and it is helpful for all students for personal financial recordkeeping. This class is offered during both semesters.
3. Accounting I - (One credit - elective- Jr. Sr.) Students will cover the accounting cycle for a proprietor service business and a partner merchandising business. Emphasis is on keeping financial records for a business. Recording, summarizing, and reporting financial activities are stressed. An interactive accounting simulation is used to reinforce accounting principles and procedures.
4. Marketing - (semester course - ½ credit- elective - Jr/Sr) This course is an introductory course into the study of marketing and the development of marketing skills. This includes studying the basic marketing concepts of market research, product/service planning to pricing and distribution. The course will discuss the importance of customers in planning a marketing strategy for each product developed. Also included is the necessity of creative advertising, sales presentation and determining the best prices to be successful in satisfying the customer. Speakers from local businesses who are involved in marketing will be included as they are available.
5. Business Law - (semester course - ½ credit - elective - Jr/Sr) This course is designed to offer students a basic understanding of citizens' legal rights and responsibilities. Students should be able to demonstrate decision-making skills and apply them to the solving of frequently encountered legal situations. Topics covered include, but are not limited to, ethics, lawmaking, types of crime, criminal and civil law, and law as it applies to families, juveniles, and consumers. A field trip to the county jail and county courthouse, as well as speakers from professions such as law enforcement, attorneys, etc. are included.
6. Advanced Computer Applications II - (one credit- ½ credit - elective - Jr/Sr) Prerequisite: Advanced Computer Applications and approved by Adv. Computer Applications teacher. This course has students continue working with web software. Students will help maintain the school web site and assist teachers setting up a web page. They will also learn Contribute 3 web editing software. Students will work with Creative Suites desktop publishing software. Students will also assist in creating programs for school activities and other publications that are requested.
7. Cooperative Vocational Education Program - (Work Study). (elective- 1 credit on pass/fail basis) - The Cooperative Vocational Education Program provides senior students with a combination of classroom instruction and on-the-job work experience. The classroom will prepare the student with skills to be used in their work experience. (Each student must be approved by the Cooperative Vocational instructor, principal, and counselor before registering for this class.) The job that the student holds must pertain to one of five areas: Agriculture, Business, Industrial, Health, or Home Economics. A student cannot work for a family business. ***Deadline to register in class is May 20th in order to qualify for the next school year. Students will be required to attend a work study orientation to be held the first week of school with the work study instructor. Other requirements include weekly paperwork, schedules, paycheck stubs, and any other required documentation.

MATH DEPARTMENT

The courses described below comprise the required sequence of math classes at Hamilton High School and are designed to prepare students for continued success in math after graduation from high school. Geometry is no longer offered as a separate class but has been integrated into the study of Algebra. The math program is based on the principal of continuous spiral review with only a few problems covering new concepts being introduced each day. Most of each day's assignment is practice problems covering concepts previously covered. Students having difficulty with the few problems covering new concepts will be given extra assistance so they can quickly catch up. To be successful it is imperative that students attempt every problem assigned every day!

1. Pre-Algebra - (one credit – prerequisite for Algebra 1 unless able to proficiency out). One year course for students needing additional math maturity before beginning Algebra I. Course will strengthen arithmetic skills and help make the transition from concrete to abstract math concepts easier. Topics covered include arithmetic operations with whole numbers, integers, real numbers, number theory, area and volume concepts, ratios, proportions, percents, elementary algebraic expressions and equations, etc. Daily completion of homework assignments required for success. Scientific calculator required.

2. Algebra I - (one credit – required.) One year course that provides the required foundation for success in all advanced math classes that follow. Students will learn to apply previous math skills to abstract concepts, develop more advanced math skills, and become better problem-solvers. Topics include using variables to solve problems, simplifying algebraic equations, solving and graphing linear and quadratic equations, using operations involving polynomials, using algebra to solve word problems, solving systems of equations, etc. Daily completion of homework assignments required for success. Prerequisite: MUST have permission to take IF in the eighth grade.

3. Algebra II - (one credit – required). (prerequisite – successful completion of Algebra I). One year course that continues the study of Algebra. Topics include solving quadratics by factoring, completing the square, and using the quadratic formula, simplifying complex fractions and radicals, trigonometric functions, direct and indirect variations, vector operations, complex numbers, logarithmic equations, etc. Daily completion of homework assignments required for success. Scientific calculator required.

4. Advanced Math I - (Elective-one credit-). (Prerequisite: Successful completion of Algebra II.) One year course designed to teach concepts and skills necessary for student to succeed in mathematically based classes such as chemistry and physics, calculus, and college-required math classes. Primary emphasis is on a continuation of intermediate algebraic skills while introducing the upper-level algebraic concepts. This class also emphasizes problem solving and the development of productive thought patterns. Conceptually oriented problems will help prepare students for college entrance exams such as the ACT and SAT. Daily completion of homework assignments required for success. Scientific calculator required.

5. Advanced Math II - (Elective – one credit). (Prerequisite: Successful completion of Advanced Math I) One year course that is a continuation of Advanced Math I. This course contains an in-depth study of trigonometry, logarithms, analytic geometry, and upper-level algebraic concepts. Other topics include functions, matrices, statistics, the graphic calculator, determinants, arithmetic and geometric series, conic sections, roots of higher-order polynomial equations, and equations and graphs of sinusoids. Daily completion of homework assignments required for success. Scientific calculator or graphing calculator required. Graphing calculator recommended.

6. Calculus - (Elective – one credit). (prerequisite – successful completion of Advanced Math II.) One year course designed for prospective mathematics majors and students interested in engineering, computer science, physics, business, or the life sciences. This course covers all topics in the Advanced Placement Calculus AB

and Calculus AC syllabi as well as topics that include aspects of sequences and series, slope fields, parametric equations, polar functions, vectors functions, logistic growth, arc length, piecewise integration, projectile motion, and volumes of solids defined by cross sections. Daily completion of homework assignments required for success. Graphing calculator required.

7. Consumer Math-(one credit – elective class for non-college bound seniors) (no prerequisite). One year course designed to assist students in learning to use mathematics effectively as a tool in their personal and business lives. Topics include gross and net income, simple and compound interest, charge accounts and credit cards, loans, auto insurance, mortgage payments, recordkeeping, accounting, financial management, etc. Daily completion of homework assignments required for success. Scientific calculator required.

SOCIAL STUDIES DEPARTMENT

1. World Geography - (One credit - elective) This course is intended to provide students with a basic knowledge about the world's geographic regions and to relate that knowledge to events in today's changing world. The goals are to relate physical geography to the economic, political, social, historical, and cultural aspects of human activity with emphasis on the United States.
2. World History - (One credit - elective) This course covers the accomplishments and problems of men and women from prehistoric times to the present. It is a study of historical development of human cultures. It covers the study of the world's civilizations with major emphasis on the Western Civilizations.
3. U.S. History - (One credit - **required class**) This is a study of the primary social, economical, political, and military factors influencing American development from 1492 to the present with major emphasis on the post Civil War era. This course will allow the student to meet state requirements concerning constitution tests and flag display as well as the contributions of women, labor movement, Black History and the Holocaust.
4. Current Events - (semester course - Soph/Jr/Sr level) An examination of current social, political and economic events and their impact on the local, national and international scene. Materials used include newspapers, news magazines, and radio and television programming in an effort to further student understanding about the world around them.

PHYSICAL EDUCATION AND MISCELLANEOUS

1. HEALTH - (**required**, ½ credit - semester course) A study of mental health, emotions, stress management, nutrition-diet- fitness, personalities, family and parenting, AIDS, mood-modifying substances (abuse and addictions), reproduction (abstinence as birth control) as well as human development.
2. DRIVER EDUCATION - (**required**, ½ credit - nine week class) Classroom phase will include the study of the Illinois Rules of the Road and textbook, Let's Drive Right. Upon completion of Rules of the Road, a state examiner will administer an eye test and written exam for the purpose of obtaining an instructional permit. The driving phase consists of learning the basic skills of driving such as parking, city driving, and highway driving. The State of Illinois requires, by law, every student take Driver Education classroom before their junior year. If a student wants to obtain a driver's license in Illinois before the age of 18, he/she must successfully pass the classroom and driving phase of Driver Education (freshmen who turn 16 before their sophomore year may take Driver Education second semester of grade 9). **By law students must pass at least 8 academic courses during the previous two semesters.**
3. PHYSICAL EDUCATION - (**required**, 1/4 credit per year) Physical Education is the phase of education concerned with the teaching of skills, acquisition of knowledge and development of attitudes through human development. The course is designed to help create a healthy body, sportsmanship and leadership qualities. Activities included in physical education: flag football, softball, volleyball, weight training, basketball, floor hockey, badminton, ping pong, pickleball, aerobic activities, soccer, speedball, kickball, and recreational games.
4. ADULT LIVING - (semester course, ½ credit - elective-junior/senior level) This is a course studying experiences which emphasize knowledge, skills and attitudes of interpersonal relationships. This class should assist individuals and families to prepare for their responsibilities in the home, community, and employment as well as accepting the process of aging, fulfillment of life and how to approach death.
5. CONSUMER EDUCATION - (required, ½ credit, sophomore- junior-senior level) This course will provide the required instruction in the area of consumer education that will include but not be limited to consumer credit, insurance, budgeting, price comparison, banking practices, marketplace economy, and family consumer issues. Students will learn to become informed consumers and understand their rights and responsibilities in society. They will discuss responsible behaviors towards the use of resources and develop sound decision-making processes.

VOCATIONAL CLASSES

Heavy Machinery - This class will cover safety of operating heavy equipment, including mechanical safety operations and personal protective equipment. This includes the importance of hard hats, safety harnesses, eye protection and proper use of all tools used in a construction industry. Mathematical problems and measurements to plot out various blueprints seen in everyday construction and operating controls of heavy equipment are covered on a regular basis. Heavy equipment consists of bulldozers, backhoes, forklifts, graders and other earthmoving equipment. This is the first class in a two year class sequence. At the completion of the introductory core curriculum, student will receive a wallet card.

Heavy Machinery II

WARSAW CLASSES – see counselor for more details. Depending on numbers, students may be asked to drive themselves to Warsaw for classes. A signed contract will need to be signed.

DUAL CREDIT CLASSES – see counselor for more details. These classes are for students who are wanting to get a head start on college. These courses can also add to the HHS curriculum, and help a student save money in the long run. Classes on HHS campus and on-line or eduNet options are available.

WACS CLASSES - See below for details and course descriptions.

WESTERN AREA CAREER SYSTEM (WACS)

The following is a list of classes offered for juniors and seniors through WACS.

CLASS	ATTENDANCE SITE
1. Computer Operating System Concepts	Spoon River College-Macomb
2. Business Technology	Carl Sandburg College-Carthage
3. Child and Day Care Services	Western Illinois University
4. Cosmetology	Ft. Madison, IA
5. Fashion Merchandising	Western Illinois University
6. Drafting & Design/Intro to Engineering	Western Illinois University
7. Health Occupations	Carl Sandburg College-Carthage
8. Automotive Service and Repair	Hamilton High School
9. Computer Aided Drafting and Design	Western Illinois University
10. Construction and Building Trades	Western Illinois University
11. Electronics Occupations	Western Illinois University
12. Graphic Communications	Macomb High School
13. Welding Technology/Metal Fabrications	Carthage High School
14. Food Service	Western Illinois University
15. Environmental and Spatial Technology (EAST)	Macomb High School
16. Criminal Justice	Carl Sandburg College-Carthage

Information WACS students should know:

1. Students receive TWO credits for WACS classes.
 2. Students must drive themselves to class sites not at Hamilton.
 3. Students must sign a contract with HHS and have signature of parents/student and have permission from HHS principal and guidance counselor.
 4. Students must go to WACS classes even if Hamilton is not in session.
 5. Students sometimes will miss pep rallies, assemblies, etc. at Hamilton High School.
 6. Early dismissal at Hamilton does not mean WACS students will get out early.
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WACS REGISTRATION FORM

If a student enrolls in an WACS class, he/she may NOT DROP that class unless a replacement is found. The Hamilton School District No. 328 is required to pay \$700.00 tuition for each student electing to enroll in a WACS class.

I, _____, choose to be enrolled in _____
(Name) (Class)

at _____.
(Attendance Site)

I understand that I must take this class in the Fall and will not be allowed to drop unless a replacement is found and WACS approves the switch.

Student Signature: _____

As parents we approve of our student selecting the class above and also understand that he/she may not withdraw from this class without both a replacement and WACS approval.

Parent Signature: _____

COURSES AVAILABLE FOR EACH CLASS LEVEL

Senior	Junior	Sophomore	Freshmen
English IV Journalism I, II, III Spanish I-II-III-IV Tech Communications	English III Journalism I, II Tech Communications Spanish I-II-III	English II Journalism I	English I Spanish I
Consumer Math Algebra II Advanced Math I Advanced Math II Calculus	Algebra I Algebra II Advanced Math I Advanced Math II	Pre Algebra Algebra I Algebra II Advanced Math I	Pre Algebra Algebra I Algebra II
Biology II Anatomy/Physiology Chemistry Research Science Physics	Biology I Physical Science Biology II Chemistry Anatomy/Physiology Research Science Physics	General Science Biology I Physical Science Biology II	General Science Biology I Physical Science
U.S. History World Geography World History *Current Events	U.S. History World Geography World History *Current Events	World History World Geography	World History World Geography
*Recordkeeping Accounting I *Marketing *Business Law Adv. Comp App. *Consumer Ed	*Recordkeeping Adv. Comp. App. *Marketing *Business Law Adv. Comp. App. *Consumer Ed	*Recordkeeping Adv. Comp. App. *consumer ed	
Art I-II-III-IV PE Chorus *Adult Living Band Chorus Warsaw Classes WACS classes Art Classes	Art I-II-III PE Chorus *Adult Living Band Chorus Warsaw Classes WACS classes Art Classes	Art I-II PE *Health *Driver Ed. Band Chorus Art classes	Art I PE *Health *Driver Ed. Band Chorus Art Classes

* designates semester class

Work Study Heavy Machinery
Heavy Machinery (I/II) *College Courses
*College Courses