

WAUSA PUBLIC SCHOOLS 9-12 CURRICULUM

ACCOUNTING I (10, 11, 12)

Planning a career in business? Owning your own business? Need help for personal use? Accounting I will give you the background knowledge for personal use or continued study in a post-secondary school. You will complete accounting tasks, using a double-entry system, for service and merchandising businesses. Activities include the completion of special problems using the microcomputer.

ACCOUNTING II (11, 12)

This course is designed to provide introductory knowledge of accounting principles, concepts, and practices. Included topics are the balance sheet, the income statement, the statement of owner's equity, the statement of cash flows, worksheets, journals, ledgers, accruals, adjusting and closing entries, internal controls, inventories, fixed and intangible assets, liabilities, equity, and financial statement analysis. This course provides a foundation for more advanced work in the fields of accounting and business.

ADULT LIVING (11, 12)

You will gain the knowledge and skills to make informed decisions as you assume adult roles and responsibilities - to become independent, responsible, and engaged members of society, with emphasis on the next 5-10 years of your life. These decisions are organized into three broad categories: financial literacy, relationship literacy and life/work literacy. Topics studied include: YOU (personality, temperament, genetics, and environment), communication skills, relationship skills, sexuality, engagement & marriage, decision making in families, and taking care of financial responsibilities and managing money as an adult.

ANATOMY, PHYSIOLOGY (11, 12)

Consists of the following short courses:

- 1) Anatomy - the name and function of body parts.
- 2) Physiology-the study of the relationship between all the internal organs.
- 3) Cytology-study of cells and their function.
- 4) Biochemistry-the interrelationship between biology and chemistry.
- 5) Histology-the study of different tissues that make-up the human body. The use of activities, projects and labs are used whenever possible to show how these systems are related to human health. Science research projects are incorporated into the curriculum. Safety is a priority.

ADVANCED MATH (12)

A course designed to introduce the high school student to some of the basic concepts of trigonometric functions and calculus, including but not being limited to functions, limits, derivatives and their applications, and integrals. The emphasis here is on the first and second derivatives and the different techniques used to find them.

ALGEBRA I (8, 9, 10)

The student is expected to work out daily assigned problems and exercises. The content of this course includes modern mathematics, terminology, making and using formulas, simple equations, directed or signed numbers, computing with polynomials, problems solved by equations, irrational numbers, real numbers, inequalities, lines and their slopes, systems of linear equations, factoring, algebraic fractions and fractional equations, square roots, quadratic equations, and complex numbers.

ALGEBRA II (11, 12)

The student is expected to work out daily assigned problems and exercises. This course consists of a review of fundamentals, functional relations, systems of equations, radicals, quadratic equations, exponents, powers, roots, logarithms, sequences, equations of higher degree, matrices and determinants. Also included are the trigonometric functions.

AMERICAN GOVERNMENT (12)

The curriculum for eleventh grade is based on American Government. Students will get a better understanding of how our government is organized and how it works. We will focus on the origins of our government, political parties, interest groups, legislative branch, executive branch, judicial branch, and state/local governments.

AMERICAN HISTORY (11)

The curriculum for the ninth grade is based on American History from Reconstruction to modern. Students will study the most significant events which will include reconstruction, World War I, Great Depression, World War II, Cold War, Korean War, Civil Rights, Vietnam War, and modern. Students will utilize their textbooks as well as the Internet, library, and current periodicals.

ANIMAL SCIENCE (10, 11, 12)

(Prerequisite: Introduction to Agriculture or teacher's signature) This class will learn the concepts and skills necessary for careers in animal science and livestock production. The class will discuss topics revolving around management and operation of dairy, beef, swine, sheep, poultry, and horse production including the following: Breeds of livestock, Animal parts and structure, Livestock judging, USDA quality and yield grades, Meat and Carcass Evaluation, Animal Reproduction, Genetics, Animal nutrition, and Vet science. An Agricultural Current Event will be due every other Friday with written and oral evaluation. A Supervised Agricultural Experience Program (SAE) will be graded as 20% of the final grade.

Textbooks:

Modern Livestock and Poultry Production 5th edition, Delmar Publishers, 1997.

Introduction to Veterinary Science 1st edition, Delmar Publishers, 2005.

APPLIED TECH MATH (11, 12)

The course features a comprehensive coverage of basic math skills needed for everyday living. With an emphasis on the use of calculators, the students practice working with whole numbers, fractions, decimals, and percents. The skills are practiced on such diverse topics as money, probability, perimeter, area, volume, time, using maps, and using various graphs. Most problems are presented in real-life situations.

ART I (9, 10, 11, 12)

Art I introduces the student to as many different types of art processes and media as possible. There is a heavy emphasis on drawing, since that skill is easily learnable through drawing instruction, and is basic to every other art process done in this class. Drawing media include pencil, charcoal, colored pencil, pastels, pen and ink, and oil pastel, to name a few. Students will also learn painting techniques with watercolor, tempera, and acrylic media. Three-dimensional work will include simple sculpture projects. Finally, Art I students will learn about artists of the past and present, art movements, how to look at art critically, and how to express themselves through the art they create.

Art II

Art II is a continuation of the skills and knowledge learned in Art I. A broader range of drawings (subject matter and media) will be offered, and the processes will be slightly more complicated and demanding. Students will generally do projects that are larger, and rendering skills will be sharpened. Students will also be given the opportunity to incorporate more feeling into their artwork through a freer use of color and line. Students will do several three-dimensional projects, including sculpture, clay projects, and craft-type activities. Finally, Art II students will learn about artists of the past and present, explore art created in the world around them.

Art III

A level of art where students should have knowledge of the basic techniques of drawing, painting, sculpture, and design. They will have had the opportunity to work with almost every media this department has to offer, so this third course in art to experiment with color, variations of technique, and mixing medias. The projects will be larger, and imagination, emotion, and spontaneity will be incorporated into every activity to a much greater extent. Specialized design will be emphasized, and portfolios will be developed for students wishing to have them. Several three dimensional projects will be required, and commercial art will be explored. Finally, Art III students will continue to learn about artists of the past and present, explore art movements, and learn how to intelligently critique the art they create and the art created in the world around them.

Art IV

Students in *Art IV* will be considered to be contemplating an art related career, and will use the time in this class to explore the processes and techniques that they most enjoy. Projects will be decided by the teacher and the student, but all the general artwork categories will be explored: drawing (all media), painting, clay, sculpture, commercial art, and design. General mixed media

projects will be assigned. Students will endeavor to create polished projects for portfolio display and scholarship consideration, though students will not necessarily use their portfolio in this way if they are not planning to pursue the field of art. College level craftsmanship will be required, and students will learn to properly mount and mat their own artwork, as well as take slides of it for competition. Essentially, Art IV will be a freer class in terms of the types of projects accomplished, but more demanding in the quality of the final product.

BAND (9, 10, 11, 12)

At this level, quality performance, competition, self-discipline, and pride play a very big role in our program. A variety of music from various styles is presented each year. Six (6) objectives are used and are listed in the curriculum guide. Public concerts are performed which include the Veteran's Day Program, Christmas Concert, Spring Concert, along with jazz band competitions, District Music Contest, pep band performances, commencement, and other depending on public request. Three-six trips are taken during the year including marching band competition, jazz band competitions, district music contest, possible concert tour and state fair. The high school pep band (when available) also performs at football, volleyball and basketball games.

BIOLOGY (10)

A study of principles of biology in which the characteristics of living organisms are investigated. Special emphasis of principles as they apply to the uniformity, diversity and organization of the plant and animal kingdom and their environmental relationships will be stressed. General topics of study include characteristics of life, genetics, evolution, representatives of the protozoan, plant, and animal kingdoms.

CHEMISTRY (10, 11, 12)

Atomic theory and molecular concept, kinetic theory, atomic structure and chemical bonding, principles of chemical reactions and molecular structure. Fundamental concepts of chemistry will be introduced, developed and utilized.

CHILD DEVELOPMENT/HOUSING (9, 10, 11, 12)

Parenting styles, pregnancy, birth and the development of the child through age 6 are studied. Research on the costs of baby, choosing safe child care, and car seat safety will be some of the information learned in this class. Hands on projects with children will be an important part of the learning in Child Development. In Housing, you will learn about the universal need for housing and how it is met around the world. Styles of housing in the U.S., reading floor plans, the elements and principles of design, and an interior decorating project will be the main areas of learning in this class.

CHORUS (9, 10, 11, 12)

Sr. High Mixed Chorus is for students in grades 9-12. The focus of the class is to improve the quality of life for all students by developing their capacities to participate fully in their musical culture. Choir consists of a well-planned sequence of learning experiences which are challenging and rigorous. The music studied reflects a broad range of genres, styles and periods. The music

performed is of the highest quality within each genre, style and period. Skills in music literacy (reading music) are emphasized. Vocal technique, aimed at healthy, technically correct vocal production, is stressed which will enable the participants to have confidence in their musical capabilities and enjoy singing throughout their lives. The group will perform in school concerts (3-4), clinics, and contests scheduled throughout the school year. Students seeking personal enrichment experiences will have the opportunity to participate in auditioned Honor Choirs, and All State Festivals. In addition, students are encouraged to become involved in community/church musical activities.

Swing Choir is an auditioned group open to choir members only..

INFORMATION TECHNOLOGY (9, 10, 11, 12)

This course is advancing into the 21st century skills. iMac computer programs will be used to produce mail able business forms. Both proofreading and formatting skills will be emphasized. Students will gain advanced skills in word processing, database, and spreadsheets using both Word and ilife/iworks. Students will also use iPhoto, iMovie, iDVD to produce multimedia.

CONSTRUCTION/MANUFACTURING & DESIGN (11, 12)

Construction/Manufacturing & Design is a two-semester class. Construction is offered the first semester, and Manufacturing & Design is offered the second semester. The student may take both semesters of learning or just one without a prerequisite.

During Construction Class, the student will explore the various building trades, building materials, occupations and construction techniques. The student will learn how to construct a small shed, garage or other structure that demonstrates building trades. The student will also design a small house using AutoCAD Program.

In Manufacturing & Design Class the student will develop a product, design the product, construct a prototype of that product, and manufacture the product. This gives the student an understanding of today's industries and develops skills in today's industrial manufacturing industries.

BUILDING CONSTRUCTION (10, 11, 12)

This class is open to any 10-12th grade student, with Intro to Tech as a preferred prerequisite. Students going into all technical areas and engineering are encouraged to take this class. Areas of study include: electrical work, wall and house framing, drywall and insulation installation, basic plumbing, enclosure, etc.. Each student will design a project, draw complete plans, and construct that project.

COMMUNICATIONS/SPEECH (9)

This class is a required class for all freshmen. Students will be introduced to all aspects of public speaking and/Speech. The class will be required to write and present a persuasive speech, oral interpretation of prose, and poetry, concentrating on writing, organization, character analysis,

presentation and listening skills. Finally, 2nd semester will be competitive speech class, with students learning to participate in the NSAA competitive speech activity.

ENGLISH (9)

In the ninth grade, the curriculum focuses on one quarter of speech, concentrating on informative public address with emphasis on research, organization, writing of the speech and the use of effective visuals. The course will also include a variety of short presentations, from monologues to the reading of poetry and prose to help build both verbal and nonverbal skills as well as gain personal confidence in their ability to communicate.

The remainder of the year will focus on vocabulary, literature, writing skills and applied grammar. The vocabulary study utilizes a weekly lesson and quiz. Literature consists of the reading of poetry, plays, short stories, nonfiction and novels, stressing the elements of each type of literature. Writing will incorporate descriptive, narrative, and expository. Applied grammar will place emphasis on language mechanics, parts of the sentence, adjectives, adverbs, verbal and compound/complex sentences.

ENGLISH (10)

This class encompasses writing, literature, vocabulary, spelling, and grammar and usage study. The forms of writing each student will complete during the course of the year are as follows: autobiographical incident, observing situations and settings, poetry, comparison and contrast, cause and effect, problem and solution, controversial issue, and interpretive essay. Students will be required to prewrite, write, edit and rewrite each piece of written work for final evaluation. Each student will also be required to submit a portfolio of his/her written work for final evaluation.

A quarter of the class will be spent on Speech. The class will be required to write and present a persuasive speech, oral interp of prose, and poetry, concentrating on writing, organization, character analysis, presentation and listening skills.

Vocabulary and spelling will be studied and tested on a weekly basis. Grammar study will include the eight parts of speech, the sentence, the phrase, the clause, correct agreement, using pronouns correctly, using verbs correctly, and using modifiers correctly. Usage study will include capitalization, and punctuation.

Literature study will cover the short story, the novel, drama and poetry.

ENGLISH (11)

This class encompasses writing, literature, vocabulary, spelling, and grammar and usage study. The forms of writing each student will complete during the course of the year are as follows: memoir, interview profile, the short story, classification, examining changes, drawing conclusions, persuasive essay, critical analysis. Students will be required to prewrite, write, edit and rewrite each piece of written work for final evaluation. Each student will also be required to submit a portfolio of his/her written work for final evaluation, with an emphasis on persuasive writing in preparation for the state writing standards.

Vocabulary and spelling will be studied and tested on a weekly basis. Grammar study will include the eight parts of speech, the sentence, the phrase, the clause, correct agreement, using pronouns correctly, using verbs correctly, and using modifiers correctly. Usage study will include capitalization, and punctuation.

Literature study will cover the short story, the novel, drama and poetry. The student will concentrate on the different types of text, theme, elements of fiction, literary devices, and informational material in preparation for the state assessment.

ENGLISH (12)

This class encompasses writing, literature, vocabulary, spelling, grammar and usage study. Each student will complete a research paper, and vocabulary will be studied and tested on a weekly basis. Literature study will cover the short story, the novel, drama and poetry. The student will concentrate on the different types of text, theme, elements of fiction and poetry, and literary devices.

ENGLISH COMPOSITION ENG 1010 (12) (1st Sem.) *CC

English Composition 1010 is designed to develop writing skills. Students write short papers and essays based upon their personal experience and/or assigned readings. The course emphasizes the clear written expression of ideas and importance of organization, word choice, logic and sentence construction. The process of planning, writing, revising, and editing essays for a particular audience is also emphasized.

ENGLISH COMPOSITION II-ENG 1020 (12) (2nd Sem.) *CC

(College Credit Writing) (Sem.) Similar to English Composition 1010, but with an emphasis on the technique of reading and explicating works of literature, particularly the novel and poetry.

FOODS & NUTRITION (9, 10, 11, 12)

Foods & Nutrition will teach you skills for life in the areas of food preparation and how diet impacts your life. If you plan on going into any health care career or just want to know more about nutrition for personal application, this course gives you the foundation of nutrition knowledge. Interspersed between nutrition principles are food preparation skills and techniques, food safety, designing your kitchen, and learning about how foods interact through various foods labs/cooking/baking experiences.

GEOMETRY (10, 11, 12)

Several dimensions of understanding are emphasized: visualizing mathematical relationships and proofs; using geometric ideas in real situations; and representing geometric concepts with coordinates or other diagrams. Logical thinking is emphasized and there is a significant amount of algebra employed to motivate, justify, extend and otherwise enhance the geometry. The trigonometric ratios are introduced and applied to right triangles. Coordinate and transformational approaches connect the geometry with algebra.

INTRODUCTION TO AGRICULTURE (9, 10,11,12)

Introduction to Agriculture is designed to present students to all aspects of the agricultural program and the FFA. Concepts and skills learned will include the following: The FFA organization, Parliamentary procedure, Soils, Weed identification, Insects, Plant propagation, Ag chemicals, Sustainable agriculture, Record books, Livestock judging, Small animals, Livestock production, Animal health, Genetics, Meat identification, Ag technology, Welding, and Careers in agriculture. An Agricultural Current Event will be due every other Friday with oral evaluation. A Supervised Agricultural Experience Program (SAE) will be graded as 20% of the final grade.

INTRODUCTION TO BUSINESS (9, 10, 11, 12)

Students will study a wide range of topics related to business. These include: Our Economic Environment, Business and Government in Our Global Economy, Technology for Business Decisions, Careers in Our Global Economy, Consumers in the Economy, Financial Institutions and Banking Services, Credit in Our Economy, Savings and Investment Strategies, Risk Management, Personal Financial Management, and Small Business Management.

LIFE SKILLS (9, 10, 11, 12)

This is a comprehensive introductory Family and Consumer Sciences class. Units on self, personality, goal setting, challenges, communication, family, friends, management of time and money, laundry and home care are studied in the fall. The spring semester includes units on foods and nutrition with foods labs, clothing and construction with a sewing project, housing with an interior design project, and an introduction to child development.

LIFETIME SPORTS/HEALTH (9, 10, 11, 12)

High school students will participate in seasonal activities such as flag football, volleyball, basketball, softball, and golf. They will also participate in nontraditional activity such as archery, lacrosse, floor hockey, pickle ball, badminton, bowling, handball, and other various activities. Students will also participate in a weight-training program designed to improve overall athleticism. Each activity unit will include practicing skills, learning rules and dimensions, and playing or participating in the activity. Fitness and agility testing will be done each semester. Students will also have 1 day of health class every week. During this time students will study units on physical well being, food and nutrition, diet, weight control, eating disorders, substance abuse including drugs, alcohol, and tobacco, infectious and noninfectious disease, AIDS, STDs and environmental health. Students will also study current trends and events happening in the world.

MECHANICS/WELDING/ELECTRICITY (10, 11, 12)

(Prerequisite: Introduction to Agriculture, or Introduction to Technology) In this class, students will learn the concepts and basic skills necessary for a career in welding and engine repair. The first semester will be devoted to welding, starting with shop safety. Skills to be mastered with different welding tools include flat welds, fillet welds, t-welds, vertical welds, horizontal welds, and overhead welds. A project will be designed, and constructed to develop skills related to metal fabrication. The second semester will be devoted to small engines and auto mechanics with topics including: Engine designs, two stroke, four stroke, and diesel engines, engine parts, and

engine maintenance. Small and large engines will be disassembled, repaired, and assembled in class. Other agricultural skills to be mastered include operation of a Global Positioning System unit, surveying, sprayer calibration, and planter calibration. Projects will be graded as 20% of the final grade.

House wiring is offered the first semester to students in grades 10-12. Topics covered are electrical terms, conductors, electrical cord safety, conduit, boxes, switches, outlets, service requirements, house wiring circuits and modernizing electrical systems. Students spend 7 weeks working in the lab on actual house wiring circuits. A competency test over 10 circuits is given at the end of the first semester. The main objective of this semester is to gain the understanding and knowledge to be able to wire a house. Second semester basic electronics covers topics on the science of electronics, sources of electricity, circuits and power, magnetism, electric motors. About 7 weeks are spent on assembling an AM radio from a Heath Kit. The main objective is to give each student a background in electronics, and some hands-on-experience in building a radio from a kit.

WEB DESIGN 1 & 2 (11, 12)

Businesses prefer hiring applicants who can prove proficiency in computer knowledge. Students who take this course will be exposed to designing websites from basic coding to advanced utilization of Dreamweaver web design software. Web Design 2 is a more advanced course, where students will be able to work and update/upgrade an actual website (Wausaweb.esu1.org) Microsoft PowerPoint (presentation software) and Microsoft Access (database software) will also be a part of the class work.

PERSONAL BUSINESS FINANCE (11, 12)

This course combines a variety of topics all related to money and finances. Topics taught in this course include: Budgeting, Credit, Investing, Banking, Vacationing, Cars, Housing, Insurance & Taxes. Working projects which involve writing your resume, cover letters, interviewing, math problems, writing assignments, current events, simulations, class discussions & field trips. These will be used to help prepare students when they are living on their own. Students taking this course will have a better understanding of how to budget for the future.

CONSUMER ECONOMICS (9, 10, 11, 12)

This course combines a variety of topics all related to money and finances. Topics taught in this course include: Budgeting, Credit, Investing, Banking, Vacationing, Cars, Housing, Insurance & Taxes. Working projects which involve writing your resume, cover letters, interviewing, math problems, writing assignments, current events, simulations, class discussions & field trips. These will be used to help prepare students when they are living on their own. Students taking this course will have a better understanding of how to budget for the future.

PHYSICAL EDUCATION/HEALTH (9, 10, 11, 12)

This course will combine components of the Lifetime Sports course with an emphasis on individual fitness and activities. Topics from the Lifetime Sports class will include pickleball, basketball, volleyball, bocce ball, ultimate frisbee, swimming, badminton, and other activities.

Individual activities will include archery, horseshoes, orienteering, fitness walks, weight lifting, bowling, golf, and an emphasis on personal fitness and personal fitness assessment.

Students will be in health for one semester. During this time students will study units on emotional development, mental health and mental disorders, stress, physical fitness, nutrition and weight control, caring for the body, conception and birth (including male and female reproductive systems, conception and prenatal development), adolescence, marriage and parenthood, aging and death, drugs, alcohol, and smoking, infectious diseases (including sexually transmitted diseases, cardiovascular diseases, cancer, first aid and environmental health). The course is designed to give students information in all areas of health-physical, social, emotional and environmental.

PHYSICAL SCIENCE (9)

Physical Science is broken up into two semesters with one semester being primarily physics, or the study of motion and the other being chemistry, or the study of matter. The physics unit is spent primarily studying laws of motion, forces in matter - including a unit on relativity, energy, light, and sound. The chemistry unit places emphasis on general chemical principles, the basics of matter and the periodic table, and the relationship of these things to our everyday lives. Organic chemistry is taught with emphasis on nomenclature and basic functional groups and their relationships to our lives.

PHYSICS (11, 12)

A strong background in physics is provided by stressing the major concepts that students will need to apply regularly. Also studied are:

Fundamental mathematics, measurement, straight line motion, graphical analysis of motion, vectors, dynamics, momentum and its conservation, motion in two dimensions, universal gravitation, work and power, energy and its conservation, heat, optics, electricity, magnetism, atomic physics.

AGRICULTURAL PLANT SCIENCE (10, 11, 12)

(Prerequisite: Introduction to Agriculture or teacher's signature) This class will learn concepts related to botany, soil science, crop science, horticulture, and landscape design. Topics to be covered in these areas include: Soil fertility, Soil conservation, Organic matter, Crop production, Forage production, Irrigation systems and management, Sustainable agriculture, Plant diseases, Insects, Plant propagation, Hydroponics, Floriculture, Landscape designs, Genetics and Biotechnology.

PRE-ALGEBRA (9)

All-important Pre-Algebra concepts and skills are presented to prepare students for success in Algebra I. This rigorous course introduces variables, expressions, equations, inequalities, graphing, and polynomials as well as various problem-solving strategies to help students apply mathematical concepts. It also includes some review of statistics and probability.

SPANISH I (9, 10, 11, 12)

The Spanish I curriculum focuses on written and oral communication. Basic Spanish grammar, vocabulary, reading, writing, listening and speaking skills are emphasized. The textbook, workbook, worksheets, and classroom practice provide opportunities to use the language, and to explore the Hispanic culture.

SPANISH II (10, 11, 12)

Spanish II continues the curriculum of Spanish I with more in-depth grammar and vocabulary study. Reading, writing, listening and speaking skills continue to be emphasized.

SPANISH III (11, 12)

Spanish III begins with an intensive review of the basics covered in Spanish I and Spanish II. Using the skills previously learned, the students will continue to improve their reading, writing, speaking, and comprehension skills.

INTRODUCTION TO TECHNOLOGY I (9, 10, 11, 12)

In the Semester class the student has a full year of beginning woodworking. The first 9-10 weeks of school is all classroom with the following areas of study: tool care, hand tools, power tools. The student begins work in the lab on a project general knowledge of woodworking. Open to all students 9-12.

WORLD HISTORY (10)

The curriculum for tenth grade social studies is based on World History. Students will study a survey of the most significant events in World History. The course begins in prehistoric times and examines events until the present. Highlights of the course work include; ancient civilizations, the contributions of the Greeks and Romans, elements of European History, and selected topics from modern history including World War I and World War II. Students will utilize their textbooks as well as the Internet, library, and current periodicals.

JOURNALISM (10,11,12)

Prerequisite (Communications.) In this year long course students will learn aspects of mass communication and news journalism. 1st semester students will be able to write journal and periodic articles to be placed on the school website and mywausanews.com. 2nd semester students will also be able to create our news station, the Wausa Public School News Network. Students will learn to write, edit, and perform school website presentations.