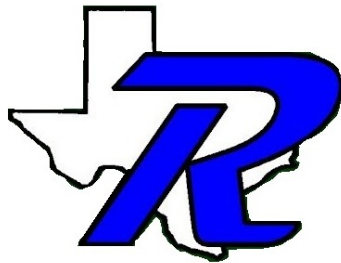


Rains High School Course Guide 2021-2022



Responsible Hardworking Students Create Adults That Succeed!

ESSENTIALS FOR GRADUATION

I. ATTENDANCE

Students must comply with all local and state laws regarding attendance and awarding of credit.

II. COURSE REQUIREMENTS

For students entering the ninth grade in the fall of 2014 or later, the Foundation Plan with a selected endorsement is the default graduation plan. (Committee and parent approval after completion of 10th grade will be required for a student to graduate on the Foundation Plan.) *See Graduation Credit Requirements on p. 2

All students shall complete a minimum of:

26 units of credit to receive a high school diploma on the **Foundation High School Plan**,

or

28 units of credit to receive a diploma on the **Foundation High School Plan with an Endorsement**,

or

28 units of credit to receive a diploma on the **Foundation High School Plan with an Endorsement and Distinguished Achievement**

III. TEST REQUIREMENTS

Students entering the ninth grade in 2011 and later must successfully complete the required measures of the State of Texas Assessments of Academic Readiness (STAAR) for high school graduation.

GRADE REPORTING

Each year is divided into two semesters. Report cards will be issued at nine-week intervals during the school year. A student may earn credit for each semester if the passing semester average is a 70 or higher. A student may earn yearly credit for courses in which the first and second semester average to a 70 or higher (for students completing first semester courses at Rains High School).

FOUR YEAR PLANS

Prior to entering high school, each student will meet with the high school counselor to develop a 4-year Personal Graduation Plan (PGP) that outlines the courses the student will take throughout high school. The PGP serves as a guide for the student and may be changed as needed from year to year.

GRADUATION CREDIT REQUIREMENTS

Course	Foundation Plan	Foundation Plan w/Endorsement	Foundation Plan w/Endorsement & Distinguished Achievement
English	4 Credits	4 Credits	4 Credits
Mathematics Algebra I & Geometry Required	3 Credits	4 Credits	4 Credits Algebra II Required
Science Biology Required	3 Credits	4 Credits	4 Credits
Social Studies World Geography OR World History, US History & Government/Economics Required	4 Credits	4 Credits	4 Credits
Languages other than English (LOTE)	2 Credits	2 Credits	2 Credits
Physical Education	1 Credit	1 Credit	1 Credit
Fine Arts	1 Credit	1 Credit	1 Credit
Electives	8 Credits	8 Credits	8 Credits
TOTAL Credits Required	26 Credits	28 Credits	28 Credits
<p style="text-align: center;">Available Endorsements: STEM, Business & Industry, Public Services, Arts & Humanities, and Multidisciplinary</p>			

Endorsements

Business & Industry

Sequence	Required Courses
Animal Science	Grade 9: Principles of Agriculture, Food, & Natural Resources Grade 10: Livestock Production Grade 11-12: Practicum in Agriculture, Food, & Natural Resources OR Advanced Animal Science
Applied Agricultural Engineering	Grade 9: Principles of Agriculture, Food, & Natural Resources Grade 10: Agriculture Mechanics and Metal Technologies Grade 11-12: Agriculture Power Systems OR Agriculture Equipment Design & Fabrication OR Practicum in Agriculture, Food, & Natural Resources
Environmental & Natural Resources	Grade 9: Principles of Agriculture, Food, & Natural Resources Grade 10: Wildlife, Fisheries, & Ecology Management Grade 11-12: Practicum in Agriculture, Food, & Natural Resources
Plant Science	Grade 9: Principles of Agriculture, Food, & Natural Resources Grade 10: Greenhouse Operation & Production Grade 11: Floral Design Grade 12: Practicum in Agriculture, Food, & Natural Resources
Carpentry	Grade 9: Principles of Agriculture, Food, & Natural Resources Grade 10: Construction Technology I Grade 11: Construction Technology II Grade 12: Career Preparation I
Design & Multimedia Arts	Grade 9: Digital Media Grade 10: Graphic Design & Illustration I Grade 11: Graphic Design & Illustration II Grade 12: Career Prep I OR Practicum in Graphic Design
Accounting & Financial Services	Grade 9: Principles of Business, Marketing, & Finance Grade 10: Financial Mathematics Grade 11: Accounting I Grade 12: Career Preparation I OR Accounting II
Communications	Grade 9: Journalism Grade 10: Adv. Journalism I (Newspaper or YB) Grade 11: Adv. Journalism II (Newspaper or YB) Grade 12: Adv. Journalism III (Newspaper or YB)

Public Services

Sequence	Required Courses
Teaching & Training	Grade 9: Principles of Human Services Grade 10: Child Development Grade 11: Instructional Practices Grade 12: Practicum in Education OR Career Preparation I
Culinary Arts	Grade 9: Introduction to Culinary Arts Grade 10: Culinary Arts Grade 11: Advanced Culinary Arts Grade 12: Food Science
Cosmetology	Grade 9: Introduction to Cosmetology Grade 10: Cosmetology I or I w/Lab Grade 11: Cosmetology II or II w/Lab Grade 12: Practicum in Human Services
Healthcare Diagnostics	Grade 9: Principles of Health Science Grade 10: Medical Terminology Grade 11: Health Science Theory Grade 12: Anatomy & Physiology and Practicum in Health Science
Nursing Science	Grade 9: Principles of Health Science Grade 10: Medical Terminology Grade 11: Anatomy & Physiology Grade 12: Practicum in Nursing (TBD)

Science, Technology, Engineering, and Mathematics (STEM)

Sequence	Required Courses
Science	Grade 9: Biology Grade 10: Chemistry AND Physics Grade 11: Advanced Science Course Grade 12: Advanced Science Course
Math	Grade 9: Algebra I AND Geometry Grade 10: Algebra II Grade 11: Advanced Math Course Grade 12: Advanced Math Course

Arts and Humanities

Sequence	Required Courses
Fine Arts	Grade 9: Art, Theater, or Band I Grade 10: Art, Theater, or Band II Grade 11: Art, Theater, or Band III Grade 12: Art, Theater, or Band IV
Social Studies	Grade 9: World Geography Grade 10: US History or College History Grade 11: World History Grade 12: Government & Economics Additionally: Psychology & Sociology (Dual Credit w/TVCC)

Multidisciplinary Studies

Sequence	Required Courses
Advanced Courses	Any four advanced courses
Core Courses	Four credits in foundational subject areas and includes Chemistry and/or Physics AND English IV
Advanced Placement & Dual Credit	Four credits in any Advanced Placement & Dual Credit courses

Certifications

CTE Endorsement	Certification earned	Class to earn certification
Animal Science	Certified Vet Assistant	Livestock Prod/Adv Animal Sci
	OSHA 30 Hour General Industry	Principles of Ag
Applied Agricultural Engineering	NCCER Core Curriculum	Ag Mechanics
	NCCER Welding 1	Ag Power/Ag Fab
	OSHA 30 Hour General Industry	Principles of Ag
Environmental & Natural Resource	OSHA 30 Hour General Industry	Principles of Ag
Plant Science	TX State Floral Assoc. Basic Skills	Floral Design
	TX State Floral Assoc. Level 1	Floral Design/Practicum
	OSHA 30 Hour General Industry	Principles of Ag
Carpentry	NCCER Core Curriculum	Construction Tech 1
	NCCER Carpentry, Level 1	Construction Tech 2
	OSHA 30 Hour General Industry	Principles of Ag
Design & Multimedia	Adobe Certified Assoc.-Photoshop	Graphic Design 2
	Adobe Certified Assoc.-Illustrator	Graphic Des 2/Practicum in GD
Accounting & Financial Services	Intuit QuickBooks Certified User	Accounting 1/Accounting 2
Teaching and Training	Educational Aide 1	Career Prep
Culinary Arts	Certified Fundamentals Cook	Culinary Arts
	ServSafe Manager	Advanced Culinary Arts
Cosmetology	Cosmetology Operator License	Practicum in Human Services
Healthcare Diagnostics	CPR, First Aid	Principles of Health Science
	Phlebotomy Tech	Practicum in Health Science
Nursing Science	Certified Medical Assistant	Practicum in Nursing

**Certifications are not guaranteed and are contingent upon student completion of the certification requirements, i.e., trainings and exams.*

CREDIT BY EXAM

Students may receive credit for some courses through Credit by Exam as outlined in the Student Handbook and in accordance with state and local policy. Please refer to the RHS Student Handbook and/or school board policy EHDB (LOCAL) and EHDC for more information.

ADVANCED PLACEMENT & HONORS COURSES

Recommended Enrollment Requirements:

1. Grades: Overall average of 90 or above in the previous course in the same academic area as the advanced course for which the request is being made (85 or above if the previous course was an advanced course).
2. STAAR: Achieved at least "Meets Grade Level" on the most recent state assessment in the same academic area as the advanced course for which the request is being made.
3. Teacher Approval: the teacher of record in the enrolled course will complete a review at the 3-week grade mark during the first 9 weeks of the semester. At this time, any student not being successful in the course, who may lose credit due to a failing grade point average, may be removed from the course, at the teacher's discretion and with approval from an administrator.

Advance courses currently offered at RHS: (These courses will have a weight of 1.10)

LANGUAGE ARTS

Honors English I
Honors English II
Honors English III
Advanced Placement English IV

MATHEMATICS

Honors Algebra I
Honors Geometry
Honors Algebra II
Pre-Calculus
AP Calculus AB

OTHER

Honors Spanish III
Honors Spanish IV

SCIENCE

Honors Biology
Honors Chemistry
Honors Physics
Anatomy & Physiology
Advanced Animal Science

SOCIAL STUDIES

Honors U.S. History
Honors World History
Honors World Geography

DUAL CREDIT ENROLLMENT

Students may take college courses and receive dual credit through our partner schools, Texas A&M University-Commerce (TAMU-C) and Trinity Valley Community College (TVCC). All courses taken through TAMU-C are face-to-face with an instructor on campus at least two days a week, while most courses taken through TVCC are online. Students who choose to take online courses will be given an “online” and/or “study hall” class period to complete these dual credit courses. Dual credit courses are given the weighted average of 1.10, similar to Advanced Placement or Honors courses. The student is responsible for all tuition fees to the partner school in which the student is enrolled. Rains ISD purchases the required textbooks for each course. Please visit the RHS Counseling Center for more information.

Dual Credit Course Offerings:

Texas A&M University-Commerce

English 1301/1302

*1 Eng. III or Ind. Study in Eng. credit

History 1301/1302

*1 US History or Adv. Studies in SS credit

Math 1314 (College Algebra)

*1 Ind. Study in Math credit

Math 2312 (Pre-Calculus)

*1 Pre-Calculus credit

Trinity Valley Community College

AGRI 1419/AGAH 1401

*1 Advanced Animal Science credit

Government 2305

*½ Government credit

Economics 2301/2302

*½ Economics credit

Psychology 2301

*½ Social Studies credit

(Please see Course Crosswalk for additional courses.)

Dual Credit Requirements:

1. Acceptance to the college/university
2. Complete TSI Assessment (limit of 3 attempts), unless exempt through ACT/SAT/EOC
3. Approval from high school counselor and/or Dean of Students
4. Meet ALL scheduled deadlines for dual credit advising and enrollment

College Transfer Concerns: Things to Consider Regarding Credit Transfer

1. It is the student's responsibility to check with the institution they plan to transfer to concerning the transferability of a course before they register for the course. Some private universities will not accept college credit if used for high school credit.
2. Texas public colleges and universities generally transfer courses which have common course numbers and designations. For example: ENGL 1301 is a common course that all Texas public colleges and universities carry. If a course does not carry the same number or designation at the transferring institution it may or may not transfer. The student should contact the receiving institution with concerns regarding transferability.
3. When a course transfers from one institution to another, the course may not count toward the courses needed for completion of a particular major. Transfer guides for most Texas institutions are available through the TVCC or TAMU-C advisors. The student is responsible for checking with the receiving institution in regard to required courses for particular majors.
4. Private and out-of-state institutions will decide which courses will transfer individually. The student must contact the private or out-of-state institution to determine if a course will transfer.

COURSE DESCRIPTIONS

All courses listed in this guide will be open for students to request in the spring when choosing classes for the next school year. However, due to the number of student requests and available staffing, every course listed may not make the final schedule of classes.

ENGLISH LANGUAGE ARTS

ENGLISH I

Grade Level: 9

Prerequisite(s): None

Credit: 1 English Language Arts credit

English I studies include grammar and various types of literature, i.e. the novel, short story, drama, poetry. Students will read and study at least one novel per semester in class and also work to improve writing skills and oral communication. While various forms of writing may be explored, this course focuses on expository writing techniques. Preparation for the English I STAAR EOC is an integral part of this course.

Honors ENGLISH I

Grade Level: 9

Prerequisite(s): See page 6

Credit: 1 English Language Arts credit

This course will address the same objectives as English I, as well as prepare students for future advanced English classes. Students will be required to utilize higher-level thinking skills while studying advanced topics related to research, oral language development, literature concepts and skills, and literary appreciation. Geared to be challenging and college preparatory, the course demands substantial outside reading and study. Preparation for the English I STAAR EOC is an integral part of this course.

ENGLISH I for Speakers of Other Languages

Grade Level: 9

Prerequisite(s): None

Credit: 1 English Language Arts credit

ESOL I is a course for students who receive services as English Learners (EL). This course takes the place of and addresses the same objectives as English I with a focus on developing students' pre-academic language proficiency in the areas of listening, speaking, reading, and writing. Preparation for the English I STAAR EOC is an integral part of this course.

ENGLISH II

Grade Level: 10

Prerequisite(s): English I

Credit: 1 English Language Arts credit

English II studies involve students assimilating information, drawing conclusions, and expressing ideas in both oral and written composition for effective communication. In order to

enhance composition, a sound vocabulary is stressed in readings of various prose and poetry selections from the adopted textbook and supplemental novels. Increased comprehension of figurative, literal and implied meanings is facilitated. Grammar and writing mechanics are stressed to strengthen writing skills. While various forms of writing may be explored, this course focuses on persuasive writing techniques. Preparation for the English II STAAR EOC is an integral part of this course.

Honors ENGLISH II

Grade Level: 10

Prerequisite(s): English I and see page 6

Credit: 1 English Language Arts credit

This course will address the same objectives as English II, as well as prepare students for future advanced English classes. Students will be required to utilize higher-level thinking skills while studying advanced topics related to research, oral language development, literature concepts and skills, and literary appreciation. Geared to be challenging and college preparatory, the course demands substantial outside reading and study. Preparation for the English II STAAR EOC is an integral part of this course.

ENGLISH II for Speakers of Other Languages

Grade Level: 10

Prerequisite(s): English I or ESOL I

Credit: 1 English Language Arts credit

ESOL II is a course for students who receive services as English Learners (EL). This course takes the place of and addresses the same objectives as English II with a focus on the continued development of students' pre-academic language proficiency in the areas of listening, speaking, reading, and writing. Preparation for the English II STAAR EOC is an integral part of this course.

ENGLISH III

Grade Level: 11

Prerequisite(s): English II

Credit: 1 English Language Arts credit

English III covers American Literature from the Colonial era through the present, with emphasis on analytical structure appropriate for understanding each genre, i.e. prose, poetry, short fiction, the novel, etc. This course is designed to introduce students to various American authors and literary movements. Students are presumed to have basic knowledge of English grammar, mechanics, and rhetoric, and the course focuses on refining and expanding these skills. Emphasis will be on coherence, ideas, elaboration, and organization. While various forms of writing may be explored, this course focuses on analytical writing techniques.

Honors ENGLISH III

Grade Level: 11

Prerequisite(s): English II and see page 6

Credit: 1 English Language Arts credit

This course will address the same objectives as English III, as well as prepare students for future advanced English classes. Students will be required to utilize higher-level thinking skills while studying advanced topics related to research, oral language development, literature concepts and skills, and literary appreciation. Geared to be challenging and college preparatory, the course demands substantial outside reading and study.

ENGLISH IV

Grade Level: 12

Prerequisite(s): English III

Credit: 1 English Language Arts credit

English IV prepares students to make personal progress in speaking, listening, reading, and writing. British literature, from its origins to the present, is a major area of study in this course. Oral discussion and written composition related to the literature enables the student to understand characters and conflicts, as well as improve upon communication skills. Literary analysis and argumentative writing are emphasized, and preparation for college English is an integral part of this course.

Advanced Placement (AP) ENGLISH Literature and Composition

Grade Level: 12

Prerequisite(s): English III and see page 6

Credit: 1 English Language Arts credit

The AP English Literature and Composition course is aligned with introductory, college-level literary analysis and writing. Students are engaged in various forms of writing opportunities, including reading response journals, reaction writing, timed writings, expository/argumentative writings, critical analyses, and additional creative writing. This course allows students to read a mixture of British, American, and World Literature. The readings engage students in the study of major authors, periods, genres, and themes—with a focus on drama, fiction, poetry, and prose. Students will be expected to closely read selections and examine the use of language, structure, style, and theme, as well as smaller elements like figurative language, imagery, symbolism, tone, attitude, diction, and mood and analyze how it affects a literary work.

Reading I-II

Grade Level: 9-10

Prerequisite(s): None

Credit: 1 Elective credit

Reading I-II offers students reading instruction to successfully navigate academic demands as well as attain life-long literacy skills. Specific instruction in word recognition, vocabulary, comprehension strategies, and fluency provides students an opportunity to read with competence, confidence, and understanding. Students learn how traditional and electronic texts are organized and how authors choose language for effect. All of these strategies are applied in instructional-level and independent-level texts that cross the content areas. These courses are designed to help struggling students be successful on their English STAAR EOC's.

MATHEMATICS

ALGEBRA I

Grade Level: 9

Prerequisite(s): None

Credit: 1 Mathematics credit

Algebra I provides students a foundation for advanced mathematics courses in high school. This course focuses on algebraic thinking and symbolic reasoning that can be used to generalize mathematical situations; the relationship between equations and functions, and function concepts; representations, tools, and technology for expressing functions; and equations and the underlying mathematical processes of Algebra. Preparation for the Algebra I STAAR EOC is an integral part of this course.

Honors ALGEBRA I

Grade Level: 9

Prerequisite(s): See page 6

Credit: 1 Mathematics credit

This course will address the same objectives as Algebra I, as well as prepare students for future honors classes. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of mathematical concepts that are necessary for college and career readiness. Preparation for the Algebra I STAAR EOC is an integral part of this course.

GEOMETRY

Grade Level: 9-10

Prerequisite(s): None

Credit: 1 Mathematics credit

Geometry provides students the opportunity to study concepts and skills involving the language of geometry (points, lines, planes and angles), reasoning and proofs (paragraph, two column, flow, indirect, and coordinate), parallel and perpendicular lines, congruent triangles, applications of congruent triangles, quadrilaterals, similarity, right triangles and trigonometry, circles, polygons and area, surface area and volume, coordinate geometry, and transformations. Students will connect algebraic concepts to geometric ideals and real-world applications.

Honors GEOMETRY

Grade Level: 9-10

Prerequisite(s): See page 6

Credit: 1 Mathematics credit

This course will address the same objectives as Geometry, as well as prepare students for future honors classes. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of mathematical concepts that are necessary for college and career readiness.

ALGEBRA II

Grade Level: 10-12

Prerequisite(s): Algebra I

Credit: 1 Mathematics credit

Algebra II allows students to build on knowledge and skills learned in Algebra I and Geometry. Students will further their study of quadratic functions, exponential functions, and systems of equations, as well as study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Connections between functions and their inverses and associated equations and solutions will be made mathematically and applied to real-world situations.

Honors ALGEBRA II

Grade Level: 10-12

Prerequisite(s): Algebra I and see page 6

Credit: 1 Mathematics credit

This course will address the same objectives as Algebra II, as well as prepare students for future advanced level courses such as Pre-Calculus and College Math. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of mathematical concepts that are necessary for college and career readiness.

MATHEMATICAL MODELS WITH APPLICATIONS

Grade Level: 10-12

Prerequisite(s): Algebra I

Credit: 1 Mathematics credit

Math Models is a course designed to allow students to continue to build on their K-8 and Algebra I foundations as they expand their understanding through other mathematical experiences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, to model information, and to solve problems from various disciplines. This course requires students to use problem solving, language and communication, mathematical connections, and reasoning skills and involves practical applications in banking, credit cards, taxes, 1040 Forms, and investments concepts. This course **must be taken to prior to Algebra II** if a student plans to complete their fourth year of math in Algebra II.

PRE-CALCULUS

Grade Level: 11-12

Prerequisite(s): Algebra I, Geometry & Algebra II

Credit: 1 Mathematics credit

In Pre-Calculus, the student will explore advanced mathematical concepts. The course will include a study of the properties and applications of circular and trigonometric functions; Cartesian and polar coordinates; vectors; conic sections; advanced properties of points, lines and planes; functions and matrices will be considered. The course will conclude with an introduction to integral and differential calculus. Logic and analytic thinking will be emphasized. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of mathematical concepts that are necessary for college level mathematics courses.

AP CALCULUS AB

Grade Level: 12

Prerequisite(s): Pre-Calculus and see page 6

Credit: 1 Mathematics Credit

In AP Calculus AB, the concepts, methods, and applications of differential and integral calculus are explored. Students will determine expressions and values using mathematical procedures and rules, connect representations, justify reasoning and solutions, and use correct notation, language, and mathematical conventions to communicate results or solutions. This course is in line with a first semester college calculus course, and college credit may be earned upon successful completion of the AP Calculus AB exam, which all students in the course will be expected to take.

COLLEGE MATH PREP

Grade Level: 12

Prerequisite(s): Algebra II

Credit: 1 Mathematics credit

College Math Prep is a course designed to prepare students for college math. Students in this course will continue to build on their Algebra II knowledge as they study factoring rules, rational expressions, rational exponents, radicals, complex numbers, inequalities, inequalities containing absolute values, quadratic equations, linear equations, and equations with radicals, rational expressions, exponents, and functions. An average of C or better indicates student readiness for a college math course.

SCIENCE

BIOLOGY

Grade Level: 9

Prerequisite(s): None

Credit: 1 Science credit

Biology includes useful terms, vocabulary, facts, basic laws, and theories of living organisms. It also develops an understanding of the relationships of man to his environment, of one organism to another, of structures to their functions, and of biological laws and principals to their applications. Biology provides extensive individual laboratory experiences. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

Honors BIOLOGY

Grade Level: 9

Prerequisite(s): See page 6

Credit: 1 Science credit

This course will address the same objectives as Biology, as well as prepare students for future advanced level science courses. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of scientific concepts that are

necessary for college and career readiness. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

INTEGRATED PHYSICS AND CHEMISTRY

Grade Level: 9-10

Prerequisite(s): none

Credit: 1 Science credit

IPC is the foundational study of chemistry and physics concepts, which includes the study of the relationship between matter and energy, the study of actions and reactions, atomic structure, physical laws and chemical processes. Laboratory work and demonstrations are performed in this class to improve ability to distinguish experimental facts from theoretical concepts. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

CHEMISTRY

Grade Level: 10-12

Prerequisite(s): Biology & Algebra I

Credit: 1 Science credit

Chemistry is an introduction to the study of the properties and changes in matter. Students will study the characteristics and classification of matter, use of the Periodic Table, development of atomic theory and structure, the mole, chemical bonding, nomenclature, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

Honors CHEMISTRY

Grade Level: 10-12

Prerequisite(s): Biology, Algebra I, and see page 6

Credit: 1 Science credit

This course will address the same objectives as Chemistry, as well as prepare students for future advanced level science courses. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of scientific concepts that are necessary for college and career readiness. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

PRINCIPLES OF TECHNOLOGY

Grade Level: 10-12

Prerequisite(s): Biology and Algebra I

Credit: 1 Science credit

Principles of Technology is a practical laboratory-based course where students learn how to apply traditional physics concepts to technological situations and focuses more on the use of physics concepts in the workplace. Students will study traditional physics concepts in the context of their relationship to four energy systems - mechanical, fluid, electrical, and thermal.

PHYSICS

Grade Level: 10-12

Prerequisite(s): Algebra I

Credit: 1 Science credit

Physics is a course designed to give students the opportunity to study concepts in the area of physical science. Students will learn about the interactions of matter and energy, velocity, accelerations, force, energy, momentum and charge. This course requires students to engage in thinking about physical relationships thoroughly, such as consequences of a physical interaction, and experimenting and interpreting the results of a physical interaction, as well as develop a basic knowledge of the structure of matter and the nature of energy. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

Honors PHYSICS

Grade Level: 10-12

Prerequisite(s): Algebra I and see page 6

Credit: 1 Science credit

This course will address the same objectives as Physics, as well as prepare students for future advanced level science courses. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of scientific concepts that are necessary for college and career readiness. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

ANATOMY & PHYSIOLOGY

Grade Level: 11-12

Prerequisite(s): Biology, one additional science course, and see page 6

Credit: 1 Science credit

A&P is the study of the structure and function of the human body. This course is designed to prepare students for careers in the Health Science field. Students will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of scientific concepts that are necessary for college and career readiness. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

ENVIRONMENTAL SYSTEMS

Grade Level: 11-12

Prerequisite(s): Biology & Physics or IPC

Credit: 1 Science credit

Environmental Systems is a course that extends on life and physical science topics, including factors in habitats; ecosystems and biomes; interrelationships among resources and an environment system; sources of energy through an environmental system; relationship between carrying capacity and changes in populations; and changes in environments. Students will make predictions and examine alternative solutions to environmental issues of

today. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

FORENSIC SCIENCE

Grade Level: 11-12

Prerequisite(s): Biology & Chemistry

Credit: 1 Science credit

Forensic science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures to solve crimes, as well as the history, legal aspects, and career options for forensic science. The student, for at least 40% of instructional time, conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices. These investigations must involve actively obtaining and analyzing data with physical equipment, but may also involve experimentation in a simulated environment as well as field observations that extend beyond the classroom.

SOCIAL STUDIES

WORLD GEOGRAPHY STUDIES

Grade Level: 9

Prerequisite(s): None

Credit: 1 Social Studies credit

World Geography Studies is a course designed around the general study of the nature of physical and cultural geography and the interactions of humans to their physical environments in major regions and settings. Students will learn about physical, political, and cultural geographical concepts through basic geographical themes such as location, place, human-environment interaction, movement, and region.

Honors WORLD GEOGRAPHY STUDIES

Grade Level: 9

Prerequisite(s): See page 6

Credit: 1 Social Studies credit

This course will address the same objectives as World Geography Studies, as well as prepare students for future advanced level social studies courses. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of social studies concepts that are necessary for college and career readiness.

UNITED STATES HISTORY

Grade Level: 10

Prerequisite(s): None

Credit: 1 Social Studies credit

U.S. History covers the time and events between 1877 and the present. Students will study historical content involving the political, economic, and social events and issues throughout various eras including the Industrial Revolution, World War I and II, the civil rights movement, and the War on Terror. This course also delves into topics in American citizenship and culture, as well as American advancements in science and technology.

Honors UNITED STATES HISTORY

Grade Level: 10

Prerequisite(s): See page 6

Credit: 1 Social Studies credit

This course will address the same objectives as United States History, as well as prepare students for future advanced level social studies courses. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of social studies concepts that are necessary for college and career readiness.

WORLD HISTORY STUDIES

Grade Level: 11

Prerequisite(s): None

Credit: 1 Social Studies credit

World History is a global study of humankind's achievements from the beginning of written records to the present. Special emphasis is given to cultural patterns that have arisen as a result of the interrelation of geographic, social, economic and political factors, specifically since the 17th century. Attention to current world affairs is provided in an attempt to understand the past in terms of present-day forces and problems.

Honors WORLD HISTORY STUDIES

Grade Level: 11

Prerequisite(s): See page 6

Credit: 1 Social Studies credit

This course will address the same objectives as World History Studies, as well as prepare students for future advanced level social studies courses. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of social studies concepts that are necessary for college and career readiness.

UNITED STATES GOVERNMENT

Grade Level: 12

Prerequisite(s): None

Credit: ½ Social Studies credit

United States Government provides an opportunity to explore the political and governing processes, elements of political theories and governmental structures included in the social studies at previous levels. Students will study state government and local governing bodies, and the rights and responsibilities of American citizenship.

ECONOMICS

Grade Level: 12

Prerequisite(s): None

Credit: ½ Social Studies credit

Economics is designed to provide opportunities to study basic principles and theories of production, consumption and distribution of goods and services. This course includes a study of other economics systems.

PERSONAL FINANCIAL LITERACY

Grade Level: 10-12

Prerequisite(s): None

Credit: ½ Social Studies credit

Personal Financial Literacy is a course designed to help students obtain the knowledge and skills needed to make responsible and informed financial decisions. Students will learn how the economy is impacted by citizens who are and who are not financially responsible.

LANGUAGES OTHER THAN ENGLISH (LOTE)

SPANISH I

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Foreign Language credit

This is an introductory course to the Spanish language and the cultures of its speakers. The purpose of Spanish I is to facilitate the practical application of the language in everyday oral and written communication at the beginning novice level. Emphasis is also placed on learning basic vocabulary as a building block to oral speech, communication and grammar. Since the focus will be on basic communication skills, the class will be conducted in Spanish as much as possible.

SPANISH II

Grade Level: 10-12

Prerequisite(s): Spanish I

Credit: 1 Foreign Language credit

This course completes the introduction to the basic grammar of Spanish and is designed for persons with essential knowledge of Spanish. Emphasis will be on proficiency in basic communication, listening, speaking, reading and writing. Students will become more aware of the culture that speaks the language through selected readings and discussions and through active participation in selected projects.

Honors SPANISH III

Grade Level: 11-12

Prerequisite(s): Spanish II and see page 6

Credit: 1 Foreign Language credit

Spanish III is a course emphasizing the use of Spanish for active communication; it involves aural/oral skills, reading comprehension, grammar and composition. This course explores the arts, history, current events, literature, culture and music of Spanish speaking countries. Students will be expected to routinely practice advanced listening, speaking, reading, and writing skills in Spanish.

Honors SPANISH IV

Grade Level: 12

Prerequisite(s): Spanish III and see page 6

Credit: 1 Foreign Language credit

Spanish IV extends the skills acquired in Spanish III through a variety of exercises, including guided conversations, games, songs, role-playing, and informal and formal presentations. While emphasis is on oral communication, students are expected to read, write, listen, and speak in Spanish fluently.

PHYSICAL EDUCATION

***Fall semester of marching band counts as a ½ credit of physical education.**

FOUNDATIONS OF PERSONAL FITNESS

Grade Level: 9-12

Prerequisite(s): None

Credit: ½ credit per semester

Foundations of Personal Fitness represents a new approach in physical education and the concept of personal fitness. The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class. The concept of wellness, or striving to reach optimal levels of health, is the corner stone of this course and is exemplified by one of the course objectives-students designing their own personal fitness program.

ATHLETICS

Grade Level: 9-12

Prerequisite(s): Physical examination each school year & Athletic Director approval

Credit: ½ credit per semester

Athletics involves participation in a series of competitive events throughout the year. Students may earn their physical education graduation requirement through this course. Participation in athletics develops the bodies and minds of young people to higher levels of efficiency, as well as self-confidence and a sense of personal accomplishment. Competition in athletics teaches commitment, dedication, and goal setting skills. Also, athletics will develop work ethic, physical skills, and athletic ability. The athlete will develop the ability to compete physically and mentally.

FINE ARTS

ART I

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Fine Arts credit

Art I is a course designed to give beginner level art students experience in basic techniques in drawing, painting, design, and sculpture, as well as a foundational understanding of terminology. Students explore a variety of art media in this foundational course that emphasizes the elements of art.

ART II

Grade Level: 10-12

Prerequisite(s): Art I

Credit: 1 Fine Arts credit

Art II is a continuation of various art processes, procedures, and experiences acquired in Art I. Students explore the principles of design in order to strengthen technical and creative skills in art.

ART III

Grade Level: 11-12

Prerequisite(s): Art II

Credit: 1 Fine Arts credit

Art III is a continuation of various art processes, procedures, and experiences acquired in both Art I and Art II. Students use their knowledge while exploring new ideas and concepts to strengthen their work and creative imagination. Students will begin in creating a working portfolio, demonstrating a more in-depth study and concentration in their areas of interest.

ART IV

Grade Level: 12

Prerequisite(s): Art III

Credit: 1 Fine Arts credit

This program allows the advanced student to have concentrated experiences in areas of special interest. This course is primarily designed for those students interested in art as a career, support for related fields, or personal satisfaction. Students create a working portfolio based on their special interest in art media and subject matter.

BAND I-IV

Grade Level: 9-12

Prerequisite(s): 2 years of JH Band and/or Band Director approval

Credit: 1 Fine Arts credit (each level) and/or ½ PE credit for fall semester

This course will consist of marching band in the fall semester and concert band in the spring semester. Students taking band will be required to attend extra rehearsals in preparation for the various activities and contests they will be entering. Much of their grade will be dependent on their participation. Varsity football players and cheerleaders who wish to take

band may do so and marching status will be reviewed on a case by case basis. However, junior varsity members who wish to do both will still be required to march. After school rehearsals will be worked out with the director. Students taking band during the fall semester will be given physical education credit. Two semesters of marching band will satisfy the physical education requirement.

CHORAL MUSIC I-IV

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Fine Arts credit (each level)

Students will be introduced to vocal techniques in order to develop the student's voice as well as read and interpret music. Students will be asked to sing individually or with the group. Grade is determined by participation, which will include activities that take place outside of the school day.

INSTRUMENTAL ENSEMBLE I-IV

Grade Level: 9-12

Prerequisite(s): None; Co-requisite: Band

Credit: 1 Fine Arts credit (each level)

This is an upper level project driven class which explores and expands a student's knowledge and experiences in instrumental music. Students will develop instrumental technique, music literacy, and aesthetic musical awareness through rehearsal, performance, and study of high-quality band literature. Instrumentalists work on the fundamentals of music notation, sound production, instrument care and maintenance, and personal and group rehearsal strategies.

MUSIC APPRECIATION

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Fine Arts credit

This is a non-performance class that explores music of various styles through listening experiences. All styles of music are covered (classical, folk, music theater, jazz, popular, etc.). Investigations of composers and performers integral to the styles are included in the class. Activities include listening, discussions, projects, and presentations on each style of music.

THEATRE ARTS I

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Fine Arts credit

In Theatre I, students are introduced to the basic concepts and experiences of theatre. Students will learn individual and group acting skills and will be introduced to the primary elements of live theatre and drama: improvisation, pantomime, theatre terms, theatre history, diction, vocal production, dramatic structure, technical design, and much more.

THEATRE ARTS II

Grade Level: 9-12

Prerequisite(s): Theatre Arts I

Credit: 1 Fine Arts credit

In Theatre II, students learn even more about the concepts and experiences of theatre. In addition to exploring improvisation, theatre history, dramatic structure, diction, and many of the other concepts to which students were introduced in Theatre Arts I, students spend much time focusing on Acting Theory, exploring the history of acting styles and practicing both traditional and modern techniques geared toward developing their acting ability.

THEATRE ARTS III, IV

Grade Level: 9-12

Prerequisite(s): Theatre Arts II

Credit: 1 Fine Arts credit (each level)

In Theatre Arts III and IV, students will further explore individual and group acting skills. Students will learn even more about dramatic structure, diction, script analysis, and other theatrical concepts and skills as they explore acting styles, technical design, and actual direction and production in an advanced and practical setting. Students will be given the opportunity to develop and enhance their acting skills so that they can be well-prepared for collegiate or professional study.

THEATRE PRODUCTION I-IV

Grade Level: 9-12

Prerequisite(s): JH Theater or Theater Arts or concurrent enrollment in Theater Arts

Credit: 1 Fine Arts credit (each level)

Theater Production is a culmination of all the different areas of theater. Students will work on all elements of actual theatrical production including lighting and sound design, costume creation, set design, and prop development. Students will also help with publicity for plays, including programs and hanging posters/flyers. Most of the work of this class will center on major and minor theatrical productions in the high school. Students will focus on acting, designing, and even some directing.

ELECTIVE COURSES-Agriculture & Construction

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES

Grade Level: 8-12

Prerequisite(s): None

Credit: 1 Elective credit

Principles of Ag is a basic course designed to provide an introduction to global agriculture. The course includes agricultural units in agricultural career development, leadership, communications, personal finance, and mechanized agriculture. Students will develop a basic agricultural comprehension in agricultural science. The course includes soils, plants, animals, agricultural construction, food science, supervised agricultural experience programs, and leadership.

LIVESTOCK PRODUCTION

Grade Level: 10-12

Prerequisite(s): Principles of Ag, Food, and Natural Resources

Credit: 1 Elective credit

This course is designed to develop knowledge and skills pertaining to the nutrition, reproduction, health, and management of domestic animals. Students will develop an understanding of topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

ADVANCED ANIMAL SCIENCE

Grade Level: 11-12

Prerequisite(s): Biology, Chemistry or IPC, Algebra I, Geometry, & Livestock Production

Credit: 1 Elective or additional Science credit

Advanced Animal Science is a course designed to develop knowledge and skills pertaining to the selection, nutrition, reproduction, health, and management of animals. Students will explore the relationships amongst human, scientific, and technological aspects of livestock production. Students will be required to utilize higher-level thinking skills while constructing in-depth understanding of scientific concepts that are necessary for college and career readiness. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

WILDLIFE, FISHERIES AND ECOLOGY MANAGEMENT

Grade Level: 10-12

Prerequisite(s): Principles of Ag, Food, and Natural Resources

Credit: 1 Elective credit

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. This course provides students with opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Students will develop an understanding of the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources.

FLORAL DESIGN

Grade Level: 9-12

Prerequisite(s): Principles of Ag, Food, and Natural Resources

Credit: 1 Elective or Fine Arts credit

In this course students will be trained on careers in floral design. Students will attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

GREENHOUSE OPERATIONS & PRODUCTION

Grade Level 9-12

Prerequisite(s): Principles of Ag, Food, and Natural Resources

Credit: 1 Elective credit

Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. Students will attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES

Grade Level: 10-12

Prerequisite(s): Principles of Ag, Food, and Natural Resources

Credit: 1 Elective credit

This course is designed to develop skills in selection, operation, and maintenance of small air-cooled engines, multi-cylinder engines, hydraulic motors, electric motors, and agricultural machinery and tractors. Students will develop skills in the maintenance, evaluation, design, and building of agricultural structures using approved construction techniques.

AGRICULTURAL EQUIPMENT DESIGN AND FABRICATION

Grade Level: 11-12

Prerequisite(s): Ag Mechanics and Metal Technologies

Credit: 1 Elective credit

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. Students will attain knowledge and skills related to agricultural structures design and fabrication.

AGRICULTURAL POWER SYSTEMS

Grade Level: 11-12

Prerequisite(s): Agriculture Mechanics and Metal Technologies

Credit: 2 Elective credits

This course is a comprehensive pre-employment laboratory-oriented course designed to develop skills in the maintenance, repair, and recondition of agricultural vehicles and machinery. The course emphasizes basic principles of operation, while including modern, high-tech components, systems monitors, on-board computers, etc.

PRACTICUM IN AGRICULTURE, FOOD, AND NATURAL RESOURCES

Grade Level: 11-12

Prerequisite(s): Must have completed 2-3 courses in any Ag/Food/NatRes coherent sequence

Credit: 2 Elective credits

This course is a work-site learning course designed to provide training in specific agribusiness careers. Classroom learning and work-site learning provide career and related training by alternating group and individual instruction in the classroom with the work-site

training experiences at an approved agribusiness training station in the local community.
Students must enter this course within the first 7 days of school.

CONSTRUCTION TECHNOLOGY I

Grade Level 10-12

Prerequisite(s): Principles of Ag, Food, and Natural Resources

Credit: 2 Elective credits

Construction Tech I is an exploratory course which addresses the utilization of construction for residential and civil structures. Students study and use common construction tools, machines, materials, and processes. Experiences in planning and controlling construction systems and projects allow students to explore the organizational structures and management strategies in construction.

CONSTRUCTION TECHNOLOGY II

Grade Level 11-12

Prerequisite(s): Construction Technology I

Credit: 2 Elective credits

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

ELECTIVES-COMMUNICATIONS

JOURNALISM

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Elective credit

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students will explore topics in broadcast journalism, newspaper reporting, and yearbook production.

Audio and Visual Production I

Grade Level: 10-12

Prerequisite(s): None

Credit: 1 Elective credit

This course will explore the Audio and Video production industry and its post-secondary educational and career opportunities. Students will gain job-specific training for entry level employment in audio, video, television, and motion picture careers. Professional grade equipment and software will be used in the creation of student led productions. Students will be involved in every aspect of several class and small group audio, video, and film style production projects with emphasis on TV studio broadcasting and news production projects.

ADVANCED JOURNALISM: NEWSPAPER I

Grade Level: 9-12

Prerequisite(s): Journalism

Credit: 1 Elective credit

This course introduces students to a variety of areas of journalism with emphasis on newspaper reporting. Students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. In addition, students will apply journalistic ethics and standards. Published works of professional journalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications.

ADVANCED JOURNALISM: NEWSPAPER II

Grade Level: 10 -12

Prerequisite(s): Advanced Journalism: Newspaper I

Credit: 1 Elective credit

This course is a study of the advanced principles of journalism. Students will continue to practice the different types of written news and visual communications, learn digital photography and photography editing techniques, master the computer programs necessary for desktop publishing and have increasing responsibility for newspaper production, editing, and layout.

ADVANCED JOURNALISM: NEWSPAPER III

Grade Level: 11 -12

Prerequisite(s): Advanced Journalism: Newspaper II

Credit: 1 Elective credit or additional English credit

This course is a continuation of the advanced principles of journalism. Students are expected to become analytical consumers of media and technology to enhance their communication skills, as well as demonstrate advanced practices in journalistic reporting and writing.

ADVANCED JOURNALISM: YEARBOOK I-III

Grade Level: 10-12

Prerequisite(s): Advanced Journalism: Newspaper I & Instructor approval

Credit: 1 Elective credit (each level; III may count as additional English credit)

Yearbook is a course designed to develop students' skills in journalism communications by providing experiences in selected aspects of yearbook production. Students learn basic principles of yearbook production and develop skills that include writing copy, captions and headlines; digital photography; desktop publishing and using appropriate technology tools for media production. Students are expected to demonstrate advanced practices in the second and third level courses.

ELECTIVES-FOOD SERVICES

INTRO TO CULINARY ARTS

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Elective credit

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Students will develop basic food production skills, industry management skills, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry.

CULINARY ARTS

Grade Level: 10-12

Prerequisite(s): Intro to Culinary Arts

Credit: 2 Elective credits

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students will develop advanced skills in reading, writing, mathematics, and science for the food service industry, as well as principles in time management, decision making, effective communication, and prioritizing. In addition, students will be expected to use technology and computer applications to manage food service operations.

ADVANCED CULINARY ARTS

Grade Level: 11-12

Prerequisite(s): Culinary Arts

Credit: 2 Elective credits

This course provides students with advanced level skills in the areas of food service and hospitality. Students will apply the knowledge and skills developed in Culinary Arts while planning, costing, preparing, and serving meals through project-based learning. Upon completion of this course, students will be prepared for entry-level positions in the food industry.

FOOD SCIENCE

Grade Level: 11-12

Prerequisite(s): Biology, Chemistry, & one additional science course

Credit: 1 Elective or Science credit

Food Science is the study of food science principles; nutrition and wellness; food technology; world food supply; managing multiple family, community, and wage-earner roles; and career options in nutrition, food science, and food technology. Instructional topics include diet-related disorders, diets appropriate to the life cycle and other factors, therapeutic diets, chemical and physical changes that affect food product quality, technologies used in food processing and product development, food safety and sanitation standards, market research, legal issues, and food policies. This course includes at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

ELECTIVES-DIGITAL ARTS

DIGITAL MEDIA

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Elective credit

In this course, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will learn the basics of graphic design and animation, including Color Theory, photo editing, digital publishing, and stop motion animation. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

GRAPHIC DESIGN AND ILLUSTRATION I

Grade Level: 10-12

Prerequisite(s): Digital Media

Credit: 1 Elective credit

This course allows students to explore careers in graphic design and illustration, which span all aspects of the advertising and visual communications industries. Within this context, students will develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

GRAPHIC DESIGN AND ILLUSTRATION II

Grade Level: 11-12

Prerequisite(s): Graphic Design & Illustration I

Credit: 1 Elective credit

This course is a continuation of Graphic Design and Illustration I. Students will develop advanced skills in visual design concepts, color theory, drawing, typography, print production, advertising, corporate design, publications design, packaging design, website design and photography.

PRACTICUM IN GRAPHIC DESIGN AND ILLUSTRATION

Grade Level: 12

Prerequisite(s): Graphic Design II

Credit: 1 Elective credit

In this course, students develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

ELECTIVES-FINANCIAL SERVICES

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Elective credit

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

FINANCIAL MATHEMATICS

Grade Level: 10-12

Prerequisite(s): Algebra I

Credit: 1 Elective or Mathematics credit

Financial Mathematics is a course that allows students to deal with personal money management and apply critical thinking skills to analyze personal financial decisions based on current and projected economic factors. This course integrates career and postsecondary education planning into financial decision making.

ACCOUNTING I

Grade Level: 10-12

Prerequisite(s): Principles of Business, Marketing, and Finance

Credit: 1 Elective credit

In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information, as well as formulate and interpret financial information for use in management decision making.

ACCOUNTING II

Grade Level: 11-12

Prerequisite(s): Accounting I

Credit: 1 Elective or Mathematics credit

In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Additionally, students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

ELECTIVE COURSES-HUMAN SERVICES & EDUCATION

PRINCIPLES OF HUMAN SERVICES

Grade Level: 9-10

Prerequisite(s): None

Credit: 1 Elective credit

This course is designed to address a broad range of knowledge and skills related to personal development and management, promotion of strong families, and preparation for adult roles. Content includes a focus on interpersonal skills; decision-making; promotion of family strengths and well-being; developing positive relationships with peers; child development and care; and clothing selection and maintenance. Other studies address nutrition and dietary practices; food selection and preparation; budgeting and consumer-buying practices; and management of family housing needs. Influences of societal and technological changes, career options, and the management of multiple family, community, and wage earner roles are included.

CHILD DEVELOPMENT

Grade Level: 10-12

Prerequisite(s): Principles of Human Services

Credit: 1 Elective credit

This course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

INSTRUCTIONAL PRACTICES

Grade Level: 11-12

Prerequisite(s): Child Development

Credit: 1 Elective credit

Instructional Practices is a field-based (practicum) internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary, middle school, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

PRACTICUM IN EDUCATION

Grade Level: 12

Prerequisite(s): Instructional Practices

Credit: 2 Elective credits

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of

effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students.

LIFETIME NUTRITION AND WELLNESS

Grade Level: 10-12

Prerequisite(s): Principles of Human Services

Credit: ½ Elective credit

This course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

INTERPERSONAL STUDIES

Grade Level: 10-12

Prerequisite(s): Principles of Human Services

Credit: ½ Elective credit

Interpersonal Studies examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

DOLLARS AND SENSE

Grade Level: 11-12

Prerequisite(s): Principles of Human Services

Credit: ½ Elective credit

Dollars & Sense focuses on consumer practices and responsibilities; a course for virtually everyone. Students will take a look at money-management processes and decision-making skills. In addition, students will learn topics like home and car buying basics, taxes, loans and much more.

INTRODUCTION TO COSMETOLOGY

Grade Level: 9-12

Prerequisite(s): None; Co-requisite: Principles of Human Services

Credits: 1 Elective credit

Students will explore such areas as hair styling, manicuring, shampooing and the principles of hair cutting, hair styling, hair coloring and facial makeup. The students will develop dexterity, a sense of style lines and an eye for color tones. Upon completion of this course, the student will have a better understanding of the art and science of beauty care. Students may begin to earn hours toward state licensing requirements.

COSMETOLOGY I or COSMETOLOGY I w/LAB

Grade Level: 10-12

Prerequisite(s): Intro to Cosmetology

Credits: 2-3 Elective credits

Cosmetology services include the knowledge and application of the principles and practice of the treatment of hair, skin, and nails in accordance with licensing requirements. Students will learn the function and application of the tools, equipment, technologies, and materials used in cosmetology. Students will earn hours toward state licensing requirements.

COSMETOLOGY II or COSMETOLOGY II w/LAB

Grade Level: 11-12

Prerequisite(s): Cosmetology I or Cosmetology I w/Lab

Credits: 2-3 Elective credits

Cosmetology Services II includes the application of knowledge learned in the prerequisite courses including the principles and practice of the treatment of hair, skin, and nails in accordance with licensing requirements. Students will practice the function and application of the tools, equipment, technologies, and materials used in cosmetology. Students will earn hours toward state licensing requirements.

PRACTICUM IN HUMAN SERVICES

Grade Level: 12

Prerequisite(s): Must have completed 2-3 courses in any Public Services coherent sequence

Credit: 2 Elective credits

Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

ELECTIVES-HEALTH SCIENCES**PRINCIPLES OF HEALTH SCIENCE**

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Elective Credit

Principles of Health Science provides an overview of career exploration through systems of the healthcare industry. The course focuses on ethics, leadership, cultural diversity, communication skills and an introduction to medical math and research, with an emphasis on past and current healthcare trends. Students will also be introduced to new topics specific to the healthcare industry to expand upon previous knowledge. Key topics include: public health, community education, nutrition, health and wellness across life stages and infection

control. Students must demonstrate competency in medical skills as well as master medical terminology. This course will help prepare students for the transition into clinical or work-based experiences.

HEALTH SCIENCE THEORY

Grade Level: 11-12

Prerequisite(s): Biology and Principles of Health Science

Credit: 1 Elective credit

Health Science Theory is a course designed to develop advanced knowledge and skills related to a wide variety of health careers. Students will learn how to reason, think critically, make decisions, solve problems, communicate effectively, and employ professional integrity while studying topics in CPR & First Aid certification, safety guidelines, infection control, ethics/confidentiality/HIPAA, vital signs, disease prevention, nutrition/wellness, anatomy/physiology, medical terminology, pathology, occupationally specific skills, and employability skills/professionalism.

MEDICAL TERMINOLOGY

Grade Level: 10-12

Prerequisite(s): Biology

Credit: 1 Elective credit

A course designed to develop a working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots, and abbreviations. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

PRACTICUM IN HEALTH SCIENCE

Grade Level: 11-12

Prerequisite(s): Health Science Theory and Biology

Credit: 2 Elective credits

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions. **This course may require the student to travel to an off-site location.**

ELECTIVES-COLLEGE & CAREER READINESS

NEXT STEP

Grade Level: 12

Prerequisite(s): None

Credit: 1 Elective credit

This course provides students with the opportunity to explore a multitude of options for post-secondary life (college, career, and military). Students will obtain knowledge of the skills needed for employment and how to obtain those skills, as well as how to adapt to life beyond high school. Employability skills that are necessary to be productive in any career will be developed. This course will guide students to making the best post-secondary choice for them based on investigative measures and skill development activities. *This course is a local graduation requirement for all students entering their 9th grade year in 2020.*

CAREER PREPARATION I-II

Grade Level: 11-12

Prerequisite(s): Must have completed 2-3 courses in a CTE coherent sequence

Credit: 2 Elective credits (each level)

Career Preparation I and II provide opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. *Students must enter this course within the first 7 days of school.*

ELECTIVES-TECHNOLOGY APPLICATIONS

FUNDAMENTALS OF COMPUTER SCIENCE

Grade Level: 9-12

Prerequisite(s): None

Credit: 1 Technology credit

This course introduces students to computer science concepts such as computer architecture, networks, and the Internet. Students use object-oriented programming, event-driven processes, modular computer programming, and data manipulation algorithms to produce finished software programs. They use the design process to create many programs by determining specifications, designing the software, and testing and improving the product until it meets the specifications. By the end of this course, students will have a solid foundation for further study in computer science.

COMPUTER SCIENCE I

Grade Level: 9-12

Prerequisite(s): Algebra I

Credit: 1 Elective credit

Computer Science I allows the development of students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and

respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

COMPUTER SCIENCE II

Grade Level: 11-12

Prerequisite(s): Computer Science I and Algebra I

Credit: 1 Elective credit

Computer Science II is an advance continuation of Computer Science I. In this course, students will develop products and generate new understandings by extending existing knowledge. Students will collaborate with peers and will use software engineering to work in software design teams. Students will locate, analyze, process, and organize data while using critical thinking, problem solving, and decision making. Students will explore and understand safety, legal, cultural, and societal issues relating to the use of technology and information.

WEB DESIGN

Grade Level: 10-12

Prerequisite: None

Credit: 1 Technology credit

Students will learn how to design, create, and maintain web pages. Students will create web pages using specific authoring tools such as text-based editing programs or graphical-based editing programs. Projects will incorporate tools such as HTML, Dreamweaver, Flash, Fireworks, digital cameras, and scanners. Students will also employ methods to evaluate the design and functionality of web pages and compare the method with other established methods.

SPECIAL COURSE OFFERINGS

COMMUNICATION APPLICATIONS

Grade Level: 9-12

Prerequisite(s): None

Credit: ½ Speech credit

Students will learn the concepts and skills required for successful communication in the workplace, interpersonal relations, debate and persuasion. Students will demonstrate these skills in class interactions and in a variety of classroom presentations.

SPORTS MEDICINE I

Grade Level: 9-12

Prerequisite(s): Instructor approval

Credit: 1 elective credit

This course provides an opportunity for the study and application of the components of sports medicine including sports medicine, concepts of sports injury, athletic healthcare team, sports injury law, sports injury prevention, sports psychology, nutrition, recognition of injuries, emergency action plan and initial injury evaluation, first aid/CPR/AED, the injury process, immediate care of athletic injuries of specific body areas, skin conditions in sports, blood borne pathogens, thermal injuries, and special medical concerns of the adolescent athlete.

SPORTS MEDICINE II

Grade Level: 10-12

Prerequisite(s): Sports Medicine I & Instructor approval

Credit: 1 elective credit

This course provides a more in-depth study and application of the components of sports medicine including: CPR and AED certification, rehabilitative techniques; therapeutic modalities; prevention, recognition, and care of injuries to the head and face, spine, upper extremity, lower extremity; taping and bandaging; injuries to the young athlete; substance abuse in sports; and general health concerns in sports medicine. Individualized and independent assignments will be included in this course. This course will involve outside-of-class time homework and time required working with athletes and athletic teams. Students must receive the approval of the Licensed Athletic Trainer supervising the athletic training students' staff.

SPORTS MEDICINE III

Grade Level: 11-12

Prerequisite(s): Sports Medicine II & Instructor approval

Credit: 1 elective credit

This course will provide a logical progression for students that have advanced through the sports medicine courses and provide them with an opportunity to apply the knowledge and skills they have gained to athletic injury recognition, evaluation, management, treatment, and rehabilitation through research investigations and applications related to sports medicine. The course will provide opportunities for advanced students in the sports medicine program to research, investigate, prepare, and present article reviews, case studies, research projects, visual poster presentations, and multimedia presentations on instructor-approved topics. The athletic training students will continue to perform the assigned duties and responsibilities in the operation of the athletic training room under the supervision of a licensed athletic trainer. These duties will prepare the students to apply the knowledge and skills acquired in the sports medicine course curriculum.