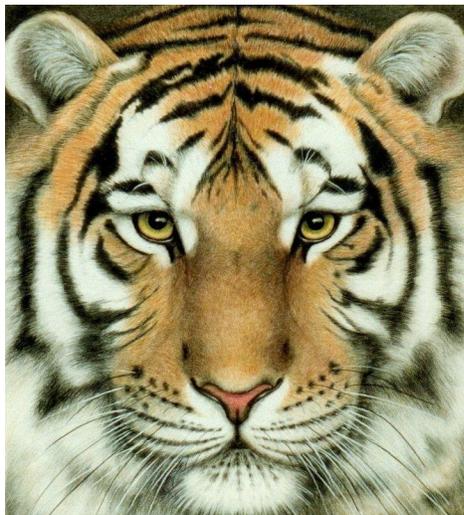


ROWVA High School

2020-2021

Course Descriptions



ROWVA High School
346 E. Rova Drive
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Jennifer Lair, School Counselor
Laura Danner, Secretary

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Traci Johnson	Paige Wexell
Tristan Lepisto	Julie White
Jason Lydic	Joel Zaiser
Rod Main	
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Course Requests and Schedule Changes

Each spring a master schedule is developed to best meet the needs of students based on student course requests and ROWVA's resources (i.e. number of teachers, class size, teaching schedule, state and federal mandates). We try to accommodate requests, but sometimes changes are needed for the complex schedule to actually work. Please keep in mind that when your schedule is finalized in May, you are expected to keep that schedule unless the following reasons exist:

- There is an error
- You need to repeat a failed class
- You haven't met a prerequisite for the course
- You complete the class through credit recovery over the summer
- A teacher or administrator makes a recommendation for a course change

Unacceptable reasons for schedule changes may include:

- To change teachers
- To be in classes with friends
- A change of mind
- To have an "easy" schedule

Schedule changes are only allowed during the first week of each semester. Classes cannot be dropped during the semester.

NCAA Eligibility and Student Athletes

www.eligibilitycenter.org

Student athletes should visit this website if there is a chance they may compete in a Division I sport at a university. Sixteen core classes are required to be eligible for freshman year of college. Only some ROWVA classes are currently approved for the NCAA 16 core courses. Those are marked in the handbook

with  .

COURSES

English Department

English I

1ENG/01001A000



- Year, 1 Credit
- Grade 9
- Prerequisite: None

This course includes the study of literature in the following areas: short stories, drama, poetry and nonfiction. Basic grammar skills will be discussed. This course is designed to improve the student's knowledge of the following:

1. Various forms of literature and techniques in those forms.
2. Basics of good composition skills in paragraphs and essays.
3. Spelling and vocabulary.
4. Parts of speech and sentence structures.

Advanced English I

4ENG/01001A000



- Year, 1 Credit
- Grade 9 (highly recommended for college-bound students)
- Prerequisite: Teacher Referral or grade of B or better in 8th grade literature and English.

This course includes the study of literature in the following areas: short stories, drama, poetry and nonfiction. Basic grammar skills will be mastered. This course is designed to improve the student's knowledge of the following:

1. Various forms of literature and techniques in those forms.
2. Mastery of good composition skills in paragraphs and essays.
3. Spelling and vocabulary.
4. Parts of speech and sentence structures.

Freshman Writing

2ENG/01101A000



- Semester, ½ Credit
- Grade 9
- Prerequisite: None

This course stresses the basic components of writing for a variety of purposes. It is designed to help students move from basic, formulaic writing into a more professional style. This course may be used to fulfill one of the 8 required semesters of English. Freshmen should register for English I and Freshman Writing concurrently unless taking English Fundamentals. Students will complete a research paper in this class.

English II

3ENG/01002A000



- Year, 1 Credit
- Grade 10
- Prerequisite: Successful completion of at least 1 semester of English I, 10th grade status minimum

Basic grammar usage and mechanics will be emphasized. This course also includes the continuation of the study of literature in the following areas: short stories, dramas, poetry, and nonfiction. This course will also include a survey through the various periods of American Literature. This course is designed to improve the student's knowledge of the following:

1. Interpretation of themes in the various forms of literature.
2. The use of basic composition skills in paragraphs and essays, including a research paper.
3. Spelling and Vocabulary.
4. Grammar in the area of mechanics and usage.

Advanced English II

7ENG/101002A000



- Course Duration - Full year, Credit
- Recommended Grade Level – 10 (highly recommended for college-bound students)
- Prerequisites – English I, and Freshman Writing (Teacher Referral), Grades of B or better)

Advanced grammar usage and mechanics will be emphasized. This course also includes the continuation of the study of literature in the following areas: short

stories, dramas, poetry, and nonfiction. This course will also include a survey through the various periods of American Literature. This course is designed to improve the student's knowledge of the following:

1. Interpretation of themes in the various forms of literature.
2. The use of advanced composition skills in paragraphs and essays, including a research paper.
3. Spelling and Vocabulary.
4. Grammar in the area of mechanics and usage.

English III

20ENG/01003A000



- Year, 1 credit
- Grade 11-12
- Prerequisites: English I and successful completion of at least 1 semester of English II *or* 3 years of English Fundamentals; 11th/12th grade status minimum

In the business and technological community, most reading and writing tasks must be accomplished in a short period of time. This class emphasizes the skills necessary for such brief assignments. This course combines the writing skills previously covered in English I and II and Freshman Writing. The syllabus stresses effective communication skills in a variety of real-life situations and draws on current topics and problems for a portion of its reading material including reading articles, letters, short literary works (mostly British Literature), memoranda and editorials. Students will use thinking, writing and speaking skills necessary to respond to such information.

Advanced English III

30ENG/01003A000



- Year, 1 credit
- Recommended Grade Level – 11 (highly recommended for college-bound students)
- Prerequisites – English I, English II, and Freshman Writing (Teacher Referral), English grades of C+ or better)

This course is designed to better prepare students for the English portion of the ACT while providing a survey of British literature. Students will focus on grammar, usage, vocabulary, as well as university-recommended works covering a variety of styles from a wide range of literary periods. Students will be required to successfully complete a research paper.

English Electives:

Speech

5ENG/01151A000



- Semester, ½ Credit
- Grade 11 – 12, but recommended for seniors (strongly recommended for college-bound students)
- Prerequisites: None

This course will cover how to create a well-organized speech, how to add professional speech writing devices, and how to effectively deliver speeches. Students should expect to give 6 major speeches plus 2 or 3 smaller speeches or performances.

World Literature I

13ENG/01058A000



- Semester, ½ Credit
- Grade 11 – 12
- Prerequisites: English I and English II

World Literature I looks at literature from the ancient cultures. Focus is on reading comprehension and vocabulary. Limited writing required. Suitable for college-bound and non-college-bound students.

World Literature II

- Semester, ½ Credit
- Grade 11 – 12
- Prerequisites: English I and English II

World Literature II begins with the legends of the Middle Ages and traces Western thought through the Renaissance and Enlightenment through modern Realism. Focus is on reading comprehension and vocabulary. Limited writing required. Suitable for college-bound and non-college-bound students.

Literature and Sports

- Semester, ½ credit
- Grade 11-12
- Prerequisites: English I and English II

This course will study the role of sports in our culture- the competition, the struggle, success and disappointment through an examination of contemporary and classic sports writing as well as across a variety of genres (fiction poetry, non-fiction and essays). Writing and speaking assignments include a focus on turning numbers into narrative, and include journalistic elements. Students may engage in focused study of a sport or genre and practice literary analysis and original expository writing on sport related subject matter. Students will read nonfiction and fiction as a class, in literature circles and independently.

College Composition I (ENG101) *

101ENG/01149A000



- Semester, ½ Credit (Dual-credit course through CSC)
- Grade 12
- Prerequisites: 3.0 Cumulative GPA, earn appropriate scores on the *ACCUPLACER* entrance exam through Carl Sandburg College, tuition fees required

Because it is possible to take this class for dual credit, students will find this class to be challenging and fast-paced. During this course, students will research and prepare advanced-level papers and learn to recognize various types of formal essay writing.

College Composition II (ENG102) *

102ENG/01149A000



- Semester, ½ Credit (Dual-credit course through CSC)
- Grade 12
- Prerequisites: 3.0 Cumulative GPA, 'C' or better in ENG 101, appropriate score on the exit exam in ENG 101, earn appropriate scores on the *ACCUPLACER* entrance exam through Carl Sandburg College, tuition fees required

Because it is possible to take this class for dual credit, students will find this class to be challenging and fast-paced. During this course, students will read and write about various types of prose, especially short fiction and novels, and prepare a research paper that demonstrates analysis of the novel.



- Semester, ½ credit (dual-credit course through CSC)
- Grade 12
- Prerequisites: 3.0 Cumulative GPA, earn appropriate scores on the ACCUPLACER entrance exam through Carl Sandburg College, tuition fees required

This is a performance course in public speaking. The principles of oral public communication

will be presented through readings and lecture. The student will apply these principles in the speeches presented to the class. Emphasis will be placed on the discovery and organization of important ideas and the communication of those ideas to a specific audience. This course is intended for individuals who desire to complete a bachelor's degree and those who desire to develop competence in public speaking.

Students are advised to consult with the school counselor and contact the college of their choice before enrolling in this class for Carl Sandburg College credit. CSC offers a 50% reduction in the tuition rate for dual credit for up to 6 credit hours per semester.

Mathematics

Pre-Algebra

02051A000

- Year, 1 credit
- Grade 9, Teacher recommendation

Pre-Algebra courses increase students' foundational math skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.

Algebra AB

18MATH/02053A000/02054A000



- Year, 2 credits (**only counts as one math credit, however**) Meets on 'A' and 'B' days
- Grade 9-12
- Prerequisite: 'C' or below in 8th grade math, Teacher/Counselor recommendation

This course generally covers the same topics as the first semester of Algebra I, including the study of properties of rational numbers (i.e., number theory), ratio, proportion, and estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first degree equations and inequalities. This course covers the same topics as the second semester of Algebra I, including the study of properties of the real number system and operations, evaluating rational algebraic expressions, solving and graphing first degree equations and inequalities, translating word problems into equations, operations with and factoring of polynomials, and solving simple quadratics. **Taking one Algebra class is a requirement for graduation. This course only differs from Algebra I in that it meets on 'A' and 'B' days both.**

Algebra I

21MATH/02052A000



- Year, 1 credit
- Grade 9 – 12

- Prerequisite: C or better in 8th grade math, ISAT scores

Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations. **This course is required for graduation. Students who took this class in 8th grade will have it listed on their official high school transcript to meet graduation requirements. It will not, however, count towards the fulfillment of 3 high school math credits.**

Geometry

22MATH/02072A000



- Year, 1 credit
- Grade 9 – 12
- Prerequisite: Algebra I

Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles. **This course is required for graduation.**

Algebra II

24MATH/02056A000



- Year, 1 credit
- Grade 10 – 12
- Prerequisite: Algebra I and Geometry; or minimum of B in Algebra I without Geometry

Algebra II course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents. **Many colleges/universities require Algebra II in their admissions criteria.**

Algebra 1.5

35MATH/02055A000

- Year, 1 credit
- Grade 11
- Prerequisite: Junior standing, Teacher/Counselor Recommendation

Transition Algebra courses review and extend algebra and geometry concepts for students who have already taken Algebra I and Geometry. Transition Algebra courses include a review of such topics as properties and operations of real numbers; evaluation of rational algebraic expressions; solutions and graphs of first degree equations and inequalities; translation of word problems into equations; operations with and factoring of polynomials; simple quadratics; properties of plane and solid figures; rules of congruence and similarity; coordinate geometry including lines, segments, and circles in the coordinate plane; and angle measurement in triangles including trigonometric ratios.

Trigonometry

26MATH/02103A000



- Semester, ½ credit
- Grade 11- 12
- Prerequisite: Algebra I and Geometry

Trigonometry courses prepare students for eventual work in calculus and typically include the following topics: trigonometric and circular functions; their inverses and graphs; relations

among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; and complex numbers. Some colleges/universities require this course for admissions.

Probability and Statistics

27MATH/ 02201A000



- Semester, ½ credit
- Grade 11 – 12
- Prerequisite: Algebra I and Geometry

Probability and Statistics courses introduce the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability.

Transitional Math

- Year
- Grade 12
- Senior who has completed their required 3 years of math

As defined in the PWR Act, “transitional mathematics instruction” means “instruction delivered to a student during 12th grade for the purpose of enabling the student to attain the transitional mathematics competencies associated with the student’s postsecondary institution mathematics pathway and demonstrate readiness for a college level mathematics course.” A grade of ‘C’ or better will allow a student to enter a credit bearing math class at a junior college in Illinois without taking a placement exam pending approval from the local community college.

Math IV

25MATH/ 02110A000



- Year, 1 credit
- Grade 12
- Prerequisite: C or better in Algebra II, or consent of the instructor

Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

Dual Credit Math

- Semester, ½ credit each
- Grade 11/12
- Prerequisite: High School Algebra, Geometry, and Algebra II with grades of “C” or better, placement according to CSC Math Gateway exam
- Tuition to CSC

MAT.109 Concepts of Mathematics

This course is designed to fulfill general education requirements. In the development of topics, the focus shall be on mathematical reasoning and the solving of real-life problems. Calculators and computers will be used regularly. The units studied include probability and counting techniques, logic and set theory, the mathematics of finance, and statistics. Included in the approach to these topics shall be the use of mathematical models and group projects.

Offered: Fall or Spring or Summer

Prerequisites: Two years of high school algebra and one year of high school geometry with grades of C or better; or an ACT Math score of 25; or a score of 4 or 5 on the PARCC exam; or the appropriate placement exam score; or take [MAT.086](#) with a grade of C or better; or [MAT.098](#) with a grade of C or better; or [MAT.099](#) with a grade of C or better.

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AA, AS, AFA, AAS, AGS, and Certificates where applicable. *IAI Course No. MI 904*

General Education – Math

MAT.130 College Algebra

This pre-calculus course is appropriate for students whose major interest is in mathematics, science, engineering, or other disciplines requiring a strong preparation in mathematics. The content of this course includes real number properties, linear equations and inequalities, the algebra of functions, exponents, logarithms, systems of linear equations, and sequences and series. Students intending to enter the calculus sequence ([MAT.240](#)-242) should also enroll in [MAT.140](#) (Trigonometry).

Offered: Fall or Spring or Summer

Prerequisites: Take [MAT.099](#) with a grade of C or better or two years of high school algebra and one year of geometry with grades of C or better, and a satisfactory score on the department's Gateway Examination.

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AA, AS, AAS, AGS, and Certificates where applicable.

General Education -- Not Applicable Elective Only

Science:

Physical Lab Science

30SCI/ 03159A000



- Year, 1 credit
- Grade 9 – 12
- Prerequisite: None

Physical science is the study of energy, motion, and matter. Students will study the nature of science, physical science methods, energy and motion, and the nature of matter. The course does require some mathematical skills. This is a basic, introductory level class.

Biology

31SCI/ 03051A000



- Year, 1 credit
- Grade 9 – 12
- Prerequisite: None

Biology is an introductory class for the many areas of life science. Topics include classification, the defining traits for the six kingdoms of organisms, human anatomy, a brief review of genetics, and a short introduction to evolution. There are many labs and videos to reinforce what is taught in class. This class is a prerequisite for botany, ecology, microbiology, genetics, human anatomy, zoology, and biological science applications in agriculture.

Chemistry I

32SCI/ 03101A000



- Year, 1 credit
- Grade 10 – 12
- Prerequisite: C or better in Algebra I

Chemistry is a course in which the main objective is to learn about the composition and changes in composition of materials found in our physical world. The course structure requires some mathematical (Algebraic) skills. Laboratory activities are performed to provide the students with an opportunity to experience first hand some of the concepts being studied as well as learn general laboratory skills and safety. This course will help the student to learn about the structure and classification of matter, develop skills in writing and reading chemical formulas, develop skills in reading, writing and balancing chemical questions and see and appreciate the applications of chemistry to everyday life processes.

AP Chemistry

33SCI/03106A000



- Year, 1 credit
- Grade 11 – 12
- Prerequisite: C or better in Chemistry I

Chemistry is a course in which the main objective is to learn about the composition of materials found in our physical world. The course structure requires some mathematical (Algebraic) skills. Laboratory activities are performed to provide the students with an opportunity to experience first-hand some of the concepts being studied as well as learn general laboratory skills and safety. During this course the student will gain an understanding of the thermodynamics of chemical and physical changes, gain an understanding of acid/base equilibrium and reaction kinetics, perform detailed qualitative analysis of known and unknown substances, and see and appreciate the applications of chemistry to everyday life processes.

Botany

34SCI/ 03058A000



- Semester (fall), ½ credit
- Grade: 10 – 12
- Prerequisite: C or better in Biology

Botany is the study of plants. In this course, students will focus on plant organs and tissues and how they function. Specific attention will be paid to the structure and function of roots, stems and leaves. In addition, students will learn about plant growth, reproduction and environmental response while becoming aware of the importance of plants in our daily lives. Various laboratory exercises will be utilized to accompany class material, including some outdoor studies.

Ecology

35SCI/ 03003A000



- Semester (spring), ½ credit
- Grade: 10 – 12
- Prerequisite: C or better in Biology

This course deals with the various levels of ecological relationships. Students will begin by examining populations of organisms as the basic unit of ecology, and communities as the places where interrelationships occur between populations of different species. Later, students will study the ecosystem and biome levels of ecological relationships and will culminate their study of ecology with an in-depth look at various ecological problems today such as acid rain, pollution, endangered species and global warming.

Genetics

36SCI/ 03059A000



- Semester, ½ credit

- Grade: 10 – 12
- Prerequisite: Grades 11 – 12: C or better in Biology; Grade 10: B or better in Biology; Chemistry I recommended

Genetics is the study of inheritance. Students in genetics will learn the basics of how traits are passed from parents to their offspring. The history of genetics, human genetics, DNA structure and function, and ethical issues involving DNA technology will all be addressed in this course. Numerous lab activities will supplement and reinforce the lecture information in this class.

Microbiology

37SCI/ 03060A000



- Semester, ½ credit
- Grade: 10 – 12
- Prerequisite: Grades 11 – 12: C or better in Biology; Grade 10: B or better in Biology; Chemistry I recommended

Microbiology is the study of organisms too small to be seen with the naked eye. In this class students will learn the basics of cell structure and function. They will then apply that knowledge to the four main groups of microscopic organisms which are bacteria, viruses, fungi and protozoan. As expected, extensive use of the microscope and various staining techniques will be utilized in this course. Students will have the opportunity to culture organisms and view them under the microscope. This course will also study the impact and importance of microorganisms in agriculture, industry, food production, medicine and other areas of daily life.

STEM

53201A000

In Scientific Research and Design courses, students conceive of, design, and complete a project using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcome(s).

Human Anatomy

40SCI/ 03053A000



- Year, 1 credit
- Grade: 10 – 12
- Prerequisite: Grades 11 – 12: C or better in Biology; Grade 10: B or better in Biology; Chemistry I recommended

Human Anatomy deals with the structure and function of the human body. Students will learn about the basic tissues that make up the human body. They will then use the information to begin studying several organ systems of the body such as the skeletal, muscular, and digestive systems. Various labs will be used to reinforce the structures learned in the textbook and lecture information. This course will examine the respiratory, circulatory, and nervous systems as well as several other systems of the human body. Once again, lab exercises will be used to supplement lecture material.

Zoology

41SCI/ 03061A000



- Year, 1 credit
- Grade: 10 – 12
- Prerequisite: C or better in Biology

Zoology is the study of animals. The class includes how life might have begun and evolved. There will be detailed study of the characteristics which define the many

phyla of animals. Semester tests will be given in this class.

Physics: Mechanics and Dynamics

42SCI/ 03151A000



- Year, 1 credit
- Grade: 11 – 12 (*Offered 2020-2021*)
- Prerequisite: C or better in previous science and math courses;
Trigonometry previously or concurrently taken

This course will focus on two of the main categories for studying motion of objects in physics. Mechanics is the study of the motion of objects without regard to the cause of the motion. Dynamics is the study of the motion of objects under the influence of forces. This course requires the use of mathematical skills learned in Algebra I and Algebra II. Transnational, rotational, accelerated, and uniform motion will be covered, as well as kinetic and potential energies, vectors, momentum, friction, Newton's Laws of motion and gravitation. The course will include approximately 20 – 30% lab work designed to reinforce concepts studied.

Physics: Waves and Electromagnetism

43SCI/ 03152A000



- Year, 1 credit
- Grade: 11 – 12 (*Offered 2019-2020*)
- Prerequisite: C or better in previous science and math courses;
Trigonometry previously or concurrently taken

This course will focus on the study of waves and wave phenomena as well as optics, electricity and magnetism. Topics include sound, reflection and refraction of light, electric fields and forces, electrical current and resistance, simple circuits and magnetism. This course requires the use of mathematical skills learned in Algebra I and Algebra II. The course will include approximately 20 – 30% lab work designed to reinforce concepts covered.

AP Environmental Science

1AP/ 03207A000

- Year, 1 credit
- Grade: 11-12

AP Environmental Science courses are designed by the College Board to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems (both natural and human made), evaluate the relative risks associated with the problems, and examine alternative solutions for resolving and/or preventing them. Topics covered include science as a process, ecological processes and energy conversions, earth as an interconnected system, the impact of humans on natural systems, cultural and societal contexts of environmental problems, and the development of practices that will ensure sustainable systems.

Social Science:

World Geography

50HIS/ 04001A000



- Year, 1 credit
- Grade 9-12
- Prerequisite: None

Geography is the foundation for all the other social science courses. The world today in the twenty-first century is a much smaller place than it was at the time of your grandparents. Advances in technology, communications, and transportation have narrowed vast distances and made neighbors of the world's people. It is a

course in which the main objective is to interpret the past, understand the present, and plan for the future. During the first semester, the course will emphasize the various basic aspects of Physical Geography, Geology, and Meteorology. The topics covered during the second semester are based upon Human and Regional Geography emphasizing topics like living in the United States, the Russian Revolution, and the growing global influence of Asian countries.

Modern World History

04051A000

- Year, 1 credit
- Grades 10-12

World History is a thematic course that will delve into major world themes since 1600, including imperialism, revolutions, war, and human rights. Overview courses provide students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments.

US History I *

52HIS/ 04102A000



- Year, 1 credit
- Grade 10 – 11, Graduation Requirement

U.S. History I is a survey of American History from 1890 to the 21st century. This course will be looking at the major leaders and events that have shaped and are still shaping the United States today. During the first semester, students will examine major topics like the Progressive Era, World War I, the Great Depression, World War II and other important subtopics. The second semester the students will explore topics such as Postwar WWII, the Civil Rights Movement, the Vietnam War and other major events of the 20th Century. Upon completion of U.S. History II, students should be able to demonstrate an understanding of the major events and trends from 1890 to present, an affective appreciation for American History and being a citizen of the United States, and skill and abilities in interpreting maps, graphs, diagrams and charts, and conducting historical research using both primary and secondary sources, and developing presentations and writing clear concise essays.

AP US History

- Year, 1 credit
- Grade 10: AP potential results or teacher recommendation
- AP testing available

In AP US History I students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.

AP American Government and Politics**

- Year, 1 credit
- Grade 11 with recommendation, Grade 12

AP United States Government and Politics is a college-level introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will read and analyze U.S. foundational documents, Supreme Court decisions, and other texts and visuals

to gain an understanding of the relationships and interactions between political institutions and behavior. They will read and interpret data, develop evidence-based arguments, and engage in an applied civics or politics research-based project.

**This course will fulfill the state civics requirement for members of the graduating class of 2019 and later.*

AP European History

- **Year, 1 credit**
- **Grade 11-12, Grade 10 with teacher approval; AP Potential results from College Board**

In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity.

Civics**

- **Semester, ½ credit**
- **Grade 11-12**

Civics will focus on the skills, knowledge, and attitudes that will prepare students to be responsible citizens throughout their lives. The course will provide an overview of government institutions on all levels (national, state, and local) and what role these forms of government play in the daily life of students. The course will have a strong focus on civil rights and discuss current and controversial issues in society today.

**This course will fulfill the state civics requirement for members of the graduating class of 2019 and later.*

***Both are open to Jr/Sr with an emphasis on AP being primarily focused on college bound-seniors only (juniors by recommendation).*

Historical Studies

- Semester, ½ credit
- Grade 11 or 12
- Counts toward English and History credits

Typically a co-taught course that can be used to meet the requirements of History and English. Offered based on student requests.

Psychology (PSY101) *

100PSY/ 04254A000



- Semester, ½ credit (Dual-credit with CSC)
- Grade: 12
- Prerequisite: Administrative approval, ACCUPLACER test scores, 3.0 GPA

Because this course will be for dual-credit, students will find this class to be challenging and fast-paced. Topics covered in this course will include the various factors which influence behavior such as learning, perception, motivation and personality. Behavior disorders, selected psychotherapies and the physiological basis of behavior are also covered. Students must pass with a 'C' or better for this class to transfer to other colleges.

Sociology (SOC101) *

100SOC/ 04258A000



- Semester, ½ credit (Dual-credit with CSC)
- Grade: 12
- Prerequisite: Administrative approval, ACCUPLACER test scores, 3.0 GPA suggested

Because this course will be for dual-credit, students will find this class to be challenging and fast-paced. Topics covered in this course include how the sociologist gathers information, the importance of culture and symbols, personality development, the changing structure of the family, social class and inequality, race and ethnicity, and deviant behavior. Students must pass with a 'C' or better for this class to transfer to other colleges. General Education Social Science.

** Students are advised to consult with the school counselor and contact the college of their choice before enrolling in this class for Carl Sandburg credit. Students also must pay tuition and book fees for all dual credit classes. Please refer to the CSC website for up-to-date tuition costs (www.sandburg.edu).*

Foreign Language:

Spanish I

60LANG/ 06101A000



- Year, 1 credit
- Grade: 9-12
- Prerequisites: C or better in English classes

Basic Spanish vocabulary and grammar are introduced with equal emphasis on speaking, reading, writing and listening comprehension. Present tense verbs are also learned. Students are introduced to the great variety of culture and customs among the Spanish-speaking countries. At the end of the course, students should be able to read and understand simple passages in Spanish, understand a large amount of spoken Spanish, talk about themselves, their families and their surroundings in Spanish, and write simple Spanish sentences.

Spanish II

61LANG/ 06102A000



- Year, 1 credit
- Grade: 10-12
- Prerequisites: C or better in Spanish I

This course builds upon the vocabulary and grammar structures learned in Spanish I. The past verb tenses are taught and students learn more about Latin American and Spanish customs, history and geography. Students are given more of an opportunity to express themselves in spoken Spanish. At the end of this course, students should be able to read passages aloud with correct Spanish pronunciation, hold short conversations in Spanish, write short compositions in Spanish with a minimum of errors, and understand conversations that they hear in Spanish.

Spanish III

62LANG/ 06103A000



- Year, 1 credit
- Grade: 11-12
- Prerequisites: C or better in Spanish II

In this course, new verb tenses are learned including the future and the perfect tenses. The student will also apply their knowledge of the basic grammar by reading short stories and Spanish publications. A more in depth study of Hispanic art,

history and culture is also done. At the end of three years of Spanish, students should be able to read and understand Spanish publications (i.e. newspapers, magazines), understand native speakers, and express themselves well orally, or in writing.

Spanish IV

63LANG/ 06104A000



- Year, 1 credit
- Grade: 12
- Prerequisites: C or better in Spanish III

In this course, students will learn to perfect their previous knowledge of the language by studying advanced grammar skills. At this level, Spanish students will discuss, read about and listen to topics that pertain to situations that are faced in everyday living. Students are expected to communicate mostly in the target language at this time. Students will also read, respond to and be assessed over Spanish novels.

Art:

Drawing

71ART/05156A000

- Semester, ½ credit
- Grade: 9 – 12
- Prerequisite: None

This course will include projects using pencil, charcoal, ink and pastels. A lot of still-life drawing will be completed. Objectives are to learn techniques for drawing, gain knowledge in the use of perspective, gain an understanding of how to use the different mediums, and to gain self-confidence and the ability in drawing skills. **This is the suggested course to take when beginning art classes.*

Painting

72ART/05157A000

- Semester, ½ credit
- Grade: 9 – 12
- Prerequisite: **Drawing**

This art course covers methods of watercolor, acrylics, oils, tempera and oil pastels. Objectives are to know the techniques of each medium, to know the difference between them, and to creatively produce finished projects in each medium.

Sculpture

73ART/05158A000

- Semester, ½ credit
- Grade: 10 – 12
- Prerequisite: None

This is a semester course in which the basics of sculpture will be discussed and practiced. Some areas covered are: paper maché, wire art, clay sculpture, and plaster applications. Objectives are to understand and experience the basic techniques involving additive and subtractive sculpture methods.

Clay

74ART/05159A000

- Semester, ½ credit
- Grade 9 – 12
- Prerequisite: None

Basic methods of working with clay will be covered in this course, including: slab, coil, pinch and throwing on the wheel. Students will be able to understand clay techniques and procedures, to become proficient in clay methods, and become familiar with the procedure for firing clay and with glazing techniques.

Art Methods**76ART/05154A000**

- Semester, ½ credit
- Grade 10 – 12
- Prerequisite: **Drawing**

This course is designed to familiarize students to the concepts, materials, processes and history of a variety of art subjects. Students will develop skills and knowledge in painting and drawing (two-dimensional art), sculpture, photography and art history. This course is designed for the serious art student.

Advanced Art Methods**77ART/05154A000**

- Semester, ½ credit
- Grade: 10 – 12
- Prerequisite: **Art Methods**

This course will expand upon fundamental concepts, materials, processes and history emphasized in Art Methods. Students will produce advanced projects in painting and drawing (two-dimensional art), ceramics and sculpture (three-dimensional art), photography and art history.

Advanced Drawing**78ART/05156A000**

- Semester, ½ credit
- Grade: 9 – 12
- Prerequisite: **Drawing**

This advanced course is taken at the completion of Drawing. All basic skills will be further expanded and students will be expected to utilize their previous drawing knowledge to complete more advanced and detailed drawing projects.

Advanced Painting**79ART/05157A000**

- Semester, ½ credit
- Grade: 10 – 12
- Prerequisite: **Painting**

This course is to be taken at the completion of Painting. Students will complete advanced projects in watercolor, acrylics, and oils, as well as learning other painting methods.

Advanced Clay**80ART/05159A000**

- Semester, ½ credit
- Grade: 9 – 12
- Prerequisite: **Clay**

This course is to be taken at the completion of Clay. Advanced work in clay methods of slab, coil and wheel-thrown pottery will be covered.

2-D Art I**84ART/05161A000**

- Semester, ½ credit
- Grade: 9 – 12
- Prerequisite: None, **Suggested Drawing first*

This semester course involves learning drawing methods, mixed media techniques, printmaking techniques, decorative painting methods, and other two-dimensional (2-D) design techniques as they are used in advertising and commercial art.

2-D Art II**85ART/05161A000**

- Semester, ½ credit
- Grade: 9 – 12
- Prerequisite: **2-D Art I**

This semester course offers the serious art student the opportunity to explore and experiment with all of the methods learned in 2-D Art I on a more independent basis, in accordance to the instruction and guidance of the teacher.

Computer Information Technology:

Computer and Information Technology

10003A000

Computer and Information Technology courses teach students to operate and use computer and information technology, emphasizing their role as tools to communicate more effectively, conduct research more efficiently, and increase productivity. Course content includes the legal and ethical issues involved with computer technology and use.

Computer Concepts and Software Applications

10004A001

Computer Concepts and Software Applications is an orientation-level course designed to develop awareness and understanding of application software and equipment used by employees to perform tasks in business, marketing and management. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications, such as word processing, spreadsheets, database management, presentation software, and desktop publishing. Students will explore topics related to computer concepts, operating systems, telecommunications and emerging technologies. The development of employability skills, as well as transition skills, will be included in the course as well as an understanding of the ethical considerations that arise in using information processing equipment and gaining access to available databases.

Information Processing I

10005A001

Information Processing I is a skill-level course that includes the concepts and terminology related to the people, equipment, and procedures of information processing as well as skill development in the use of information processing equipment. Students will operate computer equipment to prepare memos, letters, reports, and forms. Students will create rough drafts, correct copy, process incoming and outgoing telephone calls and mail, and transmit and receive messages electronically. Students will create, input, and update databases and spreadsheets. Students will create data directories; copy, rename, move, and delete files, and perform backup procedures. In addition, students will prepare files to merge, as well as create mailing labels and envelopes from merge files. Students will learn to locate and retrieve information from hard copy and electronic sources, and prepare masters for a presentation using presentation software. Students will apply proper grammar, punctuation, spelling and proofreading practices. Accuracy will be emphasized. Workplace skills as well as communication skills (thinking, listening, composing, revising, editing, and speaking) will be taught and integrated throughout this course.

Information Processing II

10005A002

Information Processing II is a skill-level course for students who have completed Information Processing I. Students will create and update documents using word processing and desktop publishing programs and put together slideshows, speaker notes and handouts

using presentation software. Students will revise data in a stored database and use queries to create customized reports. Students will edit and utilize calculation functions in spreadsheets, integrate graphics, spreadsheets, tables, text and data into documents and reports, and create graphs and charts from spreadsheets. Students will learn to conduct research on the internet and/or intranet, prepare and answer routine correspondence, organize and maintain a filing system, maintain an appointment calendar, make travel arrangements, prepare itineraries and expense reports, and prepare and process timesheets. In addition, students will maintain inventory, order equipment and supplies, and perform routine equipment maintenance. Students will apply proper grammar, punctuation, spelling and proofreading practices to documents and reports. Accuracy will be emphasized. Workplace skills as well as communication skills will be taught and integrated throughout this course. A simulated information processing center or work based learning experience may be used to provide students with the experience of working in the environment of an information processing center.

Computer Operations and Programming I

10152A001

Computer Operations and Programming I is the first of two skill-level courses designed to develop computer programming and program design skills through the use of various programming languages such as Visual Basic, C#, Java, and other object-oriented languages. Students will be exposed to the fundamentals of system analysis and design (e.g. flowcharting, diagramming, system design and planning), and the systems development life cycle. Instruction will include basic programming tools that are common to many programming languages. These may include items such as input/output statements, constants, assignment statements, string and numeric variable types, conditional processing, and branching and looping control structures. Students will learn programming techniques - 165 such as counting, averaging, rounding, and generation of random numbers to develop a good programming technique. Students will apply what they learn to create programs and applications that solve real world business related problems. Students will create programs to store, locate and retrieve data.

Computer Operations and Programming II

10152A002

Computer Operations and Programming II is a skill-level course for students who have completed Computer Operations and Programming I. Students will use procedural and object-oriented programming languages such as Visual Basic, C# and Java. Students will learn programming concepts such as inheritance and polymorphism, advanced data handling (pointers, arrays, strings, and files), and common algorithms (recursion, searching and sorting). Students will be able to write, compile, run, test, debug and modify programs and applications that solve real world problems. Problem examples may include tracking inventory, scheduling rooms and facilities, accessing information and performing calculations.

Web Page and Interactive Media Development I

10201A001

Web Page and Interactive Media Development I is a skill-level course designed to prepare students to plan, design, create and maintain web pages and sites. Students will learn the fundamentals of web page design using HTML, HTML editors, and graphic editors as well as programming tools such as JavaScript. Students will work in a project-based environment to create a working website. Students will learn to create pages, add hyperlinks, make tables and frames, create forms, integrate images, and set styles. Students will use image-editing

programs to manipulate scanned images, computer graphics, and original artwork. Instruction will include creating graphical headers, interactive menus and buttons, and visually appealing backgrounds. Students will use hardware and software to capture, edit, create, and compress audio and video clips.

Web Page and Interactive Media Development II **10201A002**

Web Page and Interactive Media Development II is a skill-level course for students who have completed Web Page and Interactive Media Development I. Instruction will include using multimedia authoring applications and programming tools such as JavaScript to create a web site that combines text, hyperlinks, images, video, and sound. Instruction will include using hardware and software to capture, edit, create, and compress audio and video clips as well as create animated text, graphics, and images. Other topics will include using tables to align images with text, creating newspaper-style columns, and inserting side menus and call-outs. Students will learn how to use templates, cascading style sheets and interactive elements to enhance web pages. Students will learn to create dynamic forms that include multiple-choice questions, comment boxes, and buttons. Students will learn how to connect to a database and retrieve and write data. Students are encouraged to develop a portfolio project that demonstrates their expertise in areas such as multimedia authoring, web development, audio and video editing, and advanced JavaScript applications to create interactive web pages.

Exploring Computer Science **10012A001**

This course introduces students to computers and peripheral devices, the functions and uses of computers, the language used in the computer industry, possible applications of computers, and occupations related to computer hardware and software. These courses typically explore legal and ethical issues associated with computer use, as well as how computers influence modern society. Students may also be required to perform some computer operations.

Computer Concepts and Software Applications **91BUS/10004A001**

- Semester, ½ credit
- Grade: 9 – 12
- Prerequisite: Keyboarding I (Jr High)

Students will learn everything there is to know about Microsoft Office. This will equip students for the work that will be required in the workplace. By the end of this class, students will be prepared to take an exam that will give them a certificate.

Computer Hardware

- Semester, ½ credit
- Grades 9-12

Students will learn and understand what each component of a personal computer is. Students will learn about how mobile devices are advancing incredibly quickly and how homes are getting smarter than ever.

Beginning Digital Graphics (Blender)

- Semester, ½ credit
- Grades 9-12

Students will undergo the task of learning Blender. Blender is a 3D modeling and animation software used by major animation companies. Students will acquire the skills and

knowledge of how to model characters and items, animate with wireframes, and create a short film.

Interactive Media Design

- Semester, ½ credit

In this class, students will work with a real game making engine called Unreal Engine. This will provide career experience for students wanting to pursue the video game development field.

Communication Technology (Yearbook)

- Year; 1 credit repeatable
- Grades 10-12

Students will learn about what it takes to make a yearbook. They will learn the ins and outs of photography and how to be successful journalists and editors. They will sell ads to support the yearbook and do marketing to help get the books sold.

Digital Productions 10203A000

- Semester, ½ credit
- Grade: 9-12
- Prerequisite: None

Interactive Media Interactive Media courses provide students with the knowledge and skills to create, design, and produce interactive media products and services. The courses may emphasize the development of digitally generated and/or computer enhanced media. Course topics may include 3D animation, graphic media, web development, and virtual reality. Upon completion of these courses, students may be prepared for industry certification.

Agriculture

Introduction to Ag Industry

110AG/18001A001

- Year, 1 credit
- Grade: 9 – 12
- Prerequisite: None

This introductory course provides an opportunity for students to explore how the agriculture industry is organized, its major components, and the job opportunities associated with the agricultural industry. Both agribusiness and production applications are presented. Basic concepts in personal development and leadership through the FFA, parliamentary procedure, budgeting and financial records, along with an introduction to animal science, soil science, horticulture, agricultural resources, agribusiness management and agricultural mechanics are included. Computer applications are introduced.

Agricultural Science

111AG/18003A001

- Year, 1 credit (*Can count as a science credit*)
- Grade: 10 – 12
- Prerequisite: Intro to Ag Industry, or instructor approval

This second-year course builds on the basic skills and knowledge gained from the introductory course. Major units of instruction include advanced plant, soil and animal science, and agricultural mechanics skills necessary for maintaining and repairing equipment and/or facilities. Applied math/science skills are stressed throughout the course. Computer applications are utilized as they relate to each instructional unit.

Environmental Science**112AG/18504A001**

- Year, 1 credit (*Can count as a science credit*)
- Grade: 11 – 12 (Offered 2020-2021)
- Prerequisite: Intro. to Ag Industry, Biology or instructor approval

This course examines the relationship of agriculture and the environment. The impact of plant and animal production practices on the environment and the adoption of practices leading to improved air, land, and water quality are investigated. Areas of emphasis include: types of ecosystems, management of waste, chemical use, soil conservation, land uses and regulations, and water and air quality. Encouraging students to be conscious and concerned about the environment and recognizing the need to conserve the environment and its resources will be a theme throughout. Careers of environmental technicians, soil and water conservationists, monitoring field technicians, land surveyor, and related occupations will be examined. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Agriculture Business Management**113AG/18201A001**

- Year, 1 credit
- Grade: 11 – 12 (*Offered 2019-2020*)
- Prerequisite: Intro to Ag Industry or instructor approval

This course is designed to develop student knowledge and skill in the area of agribusiness management. Instruction units include the advanced agricultural business procedures, establishment of agricultural businesses, managing the agribusiness, marketing and sales techniques and strategies. Basic agricultural mechanics skills related to electricity, surveying and carpentry will also be developed.

Agriculture Sales and Marketing**113Aga/18202A001**

- Year, 1 credit
- Grade: 11 – 12 (*Offered 2020-2021*)
- Prerequisite: Intro to Ag Industry or instructor approval

This course is designed to develop student knowledge and skill in the area of agribusiness operations. Instruction units include the organization, function and procedures of agricultural business, agricultural business math, computer applications, human relations and sales-related skills. Basic agricultural mechanics skills related to carpentry, welding, small engines and preventative maintenance will be developed. Another goal of this course is to increase student knowledge and skill in appropriate agricultural product and service areas.

Basic Ag Mechanics**114Aga/18401A001**

- Year, 1 credit
- Grade: 9 – 12 (*Offered 2020-2021*)
- Prerequisite: None

In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, construction, cold metal work, and operating agricultural equipment safely. Because FFA and Supervised Agricultural Experience Programs are integral components of this course, students are encouraged to participate in

these programs and activities.

Agricultural Mechanization and Technology 114AG/18402A001

- Year, 1 credit
- Grade: 11 – 12 (*Offered 2019-2020*)
- Prerequisite: None

This course will concentrate on expanding student's knowledge and experiences with agricultural mechanization technologies utilized in the agricultural industry. Units of instruction included are design, construction, fabrication, maintenance, welding, electricity/electronics, internal combustion engines, hydraulics and employability skills. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Biological Science Applications in Agriculture 117AG/18051A002/18101A001

- Year, 1 credit (*Can count as a Lab Science credit*)
- Grade: 10 – 12 (*Offered 2019-2020*)
- Prerequisite: Biology

This course is designed to reinforce and extend the student's understanding of the science and the scientific process by associating scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of plant growth and management in agricultural and the specific biological science concepts that govern management decisions. Numerous laboratory exercises and experiments will deepen student understanding of scientific and agricultural content in this course while actively involving students in the process of science. This course will be valuable preparation for students planning to pursue further education, especially in agriculture or the sciences. Students not planning further schooling will find this laboratory course increases the relevance of science through the applied setting of agriculture.

Physical Science Applications in Agriculture

119AG/18449A002/18449A003



- Year, 1 credit (*Can count as a Lab Science credit*)
- Grade: 10 – 12 (*Offered 2020-2021*)
- Prerequisite: One year of science and math (preferably Phys. Science & Algebra)

This course is designed to reinforce and extend student understanding of science and the scientific process by associating scientific principles and concepts with relevant applications in agriculture. Students will examine specific agricultural applications and processes and the underlying science principles explaining or controlling those applications. Numerous laboratory exercises and experiments will deepen student understanding of scientific and agricultural content in this course while actively involving students in the process of science. This course will be valuable preparation for students planning to pursue further education, especially in agriculture or the sciences. Students not planning further schooling will find this laboratory course increases the relevance of science through the applied setting of agriculture. Areas of study are agricultural power systems – energy, force, work and torque; and environmental/natural resource system – infiltration, percolation, turbidity and soil loss.

Natural Resources Management and Conservation

121AG/18504A002

- Year, 1 credit (*Can count as a science credit*)
- Grade: 11 – 12 (Offered 2019-2020)
- Prerequisite:

This course develops management and conservation skills in understanding the connection between agriculture and natural resources. Student knowledge and skills are developed in: understanding natural resources and its importance; fish, wildlife, and forestry management and conservation; and exploring outdoor recreational enterprises. Hunting and fishing as a sport, growing and managing tree forests, and outdoor safety education will be featured. Career exploration will be discussed including: park ranger, game warden, campground manager, forester, conservation officer, wildlife manager, and related occupations. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Agriculture Cooperative Education

150AG/18998A001

- Year, Up to 4 credits (2 for working, 2 for class lecture)
- Grade: 11, 12
- Prerequisite: Introduction to the Agriculture Industry, Agriculture Science and currently enrolled in either Agriculture Sales and Marketing or Agriculture Business Management

Agricultural Cooperative Education is an elective course. It is designed for juniors and seniors interested in pursuing careers in agriculture. Students are released from school for the paid cooperative education work experience. They participate in 200 minutes per week of related classroom instruction focusing on job survival skills, career exploration skills related to the job, and human relations skills.

A qualified agricultural instructor is responsible for supervision and is given 30 minutes per student per week to do so. Written training agreements and individual student training plans are developed and agreed upon by the employer, student, and coordinator. The coordinator, student, and employer assume compliance with federal, state, and local laws and regulations. Students are expected to keep a record of their work experience and earnings and keep a savings account.

The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job seeking skills, personal development, human relationships, legal protection and responsibilities, economics of the job, organization and job termination.

Family and Consumer Science:

Foods and Nutrition 1 -

120HEC/16054A001/16054A002

Semester, ½ credit

Grade: 9 – 12

Prerequisite: None (class is limited to 16 students)

This food and nutritional science course reinforces science concepts through use of scientific principles with applications related to food preparation and nutrition. As a lab-based course, students will explore food sanitation, safety, nutrition, as well as methods of food preparations. Food products studied included, but are not limited to: food preservation, jams,

fruits, vegetables, pastas, dairy, meats, breads, pies, and other baked products. Special interest units such as career investigation, cake decorating and regional foods are added features. This course will link science to real world applications while preparing students for future responsibilities in careers and family life.

Foods and Nutrition 2 -

Semester, ½ credit

Grade: 9 – 12

Prerequisite: C or better in Foods 1 (class is limited to 16 students)

In this advanced level foods course, more attention is paid to food selection and preparation, safety products, relationship of food and nutrition to biology, chemistry, and physics.

Laboratory sessions are devoted to preparation of foods with the above-specified characteristics. Course content should include the following broad areas of emphasis: careers in food and nutrition, influences on food needs, conversation in providing food, and food preservation.

Foods and Nutrition 3 -

Semester, ½ credit

Grade: 9 – 12

Prerequisite: C or better in Foods 2 (class is limited to 16 students)

The semester course is designed for students who are interested in understanding advanced principles of culinary applications and food preparation. Attention will be given to safety and sanitation, nutrition, food preparation and culinary careers. Students need to have successfully completed Foods and Nutrition I and Foods and Nutrition II courses as a prerequisite.

Clothing and Soft Goods Construction -

123HEC/19201A001

Year-long, 1 credit

Grade: 9 – 12

Prerequisite: None (class is limited to 12 students)

Fashion Design, Construction, and Marketing is a course that encourages students to experience the world of fashion while learning the basics in computer aided design, fashion design, merchandising, construction, and basic business. The first semester will focus on development of computer designs through embroidery and entrepreneur skills while the second semester addresses fashion design, construction and display techniques.

Fashion 2 -

124HEC/19203A001

Year-long, 1 credit

Grade: 9 – 12

Prerequisite: None (class is limited to 12 students)

A continuation of Fashion 1.

Housing and Interior design -

128HEC

Semester, ½ credit

Grade: 11 – 12

Prerequisite: None

Learning experiences are designed to provide students with the basic knowledge and skills needed to select, acquire, manage, decorate and maintain a living environment that meets the needs of the occupant. Lifestyles, decision-making, budgeting and financing will also be included in this course.

Adult Living/Consumer Economics-

1CONS/22210A000

Semester, ½ credit

Grade: 11 – 12

Prerequisite: None; Fulfills a graduation requirement, Required for graduation for students who did not have one quarter of Consumer Economics

This one semester course focuses on the experiences, skills, and responsibilities students need to form healthy, mature and successful relationships in their adult lives. Topics covered include budgeting, careers, resume writing, dating, marriage, sex roles, crisis management, effective problem solving and communication skills, and the family life cycle. Students will also read literature on ways to give and receive love in order to enhance all of their current and future relationships.

This course helps the student to become an informed consumer, understand the rights and responsibilities of the consumer in society, to develop a sound decision-making process based upon one's individual goals and values, and to understand the interdependent roles of the consumer, workers, and citizens in our economy.

FCS Communications -

Year, 1 credit

Grade: 9 – 12

Prerequisite: ***FCCLA Membership Required***

This course provides the opportunity for students to investigate and analyze current family and consumer sciences issues and determine how they affect people on all sides of the issue. Students will participate in projects and activities that will reinforce goal-setting, character development, parliamentary procedure, and other leadership traits to become successful in life and the workplace. The students will develop and enhance their written and verbal communication skills through presentations of their views and opinions. Students will demonstrate their ability to arrange and present information through a variety of experiences, including but not limited to written, debate, testimonial, and interviews. Participation in Family, Career, and Community Leaders of America (FCCLA) student organization programs and activities are an integral course component for leadership development, career exploration, and reinforcement of academic concepts. Community service projects and opportunities to practice communication and leadership skills will be an integral part of this course.

Child Development -

126HEC/19052A001

Semester, ½ credit

Grade: 11 – 12

Prerequisite: None

This course emphasizes learning experiences which will help students gain knowledge and understanding of the intellectual, physical, social and emotional development of children from conception through adolescence. Information related to careers in child care is incorporated throughout the course.

Parenting -

129HEC/22204A001

Semester, ½ credit

Grade: 11 – 12

Prerequisite: None, though Child Development is recommended

This course is designed to help students think through the responsibilities, satisfaction and stresses of parenthood. Many types of parenting situations are examined. Stress prevention and management, the work of community agencies that help parents deal with various types

of parenting crises, and the importance of readiness for parenthood. Careful management of time, energy and financial needs in raising a family will be stressed

Child Care Occupations -

127HEC/19054A001

Semester, ½ credit

Grade: 11 – 12

Prerequisite: Child Development

This course prepares students to guide the development of young children in an educational setting through classroom and job shadowing experiences. Course content includes child development, care, and education issues. Project-based learning experiences include planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements of teaching young children. Students will research the requirements of early childhood education careers and develop/expand their career portfolio.

Career and Technical Student Organization- FCCLA

Family, Career and Community Leaders of America is the Career and Technical Student Organization for Family and Consumer Science students. FCCLA is a national student organization that helps young men and women become better leaders in their families, careers and communities. Students learn skills for life: planning, goal setting, problem solving, decision making and interpersonal communication. FCCLA is the only student organization with the family as its central focus. Members have the opportunity to demonstrate leadership skills through participating in proficiency events, showcasing community service projects, exploring careers, attending educational sessions and serving as an elected officer.

Industrial Technology

Automotive Technology I

20106A001

- Year, One Credit
- Grades: 10-12
- Prerequisite: None

Automotive Technology I emphasizes preventive maintenance, vehicle ownership responsibilities, and basic automotive troubleshooting. Course content typically includes an overview of the vehicle purchasing process, cleaning and maintenance processes, handling roadside emergencies, as well as introductory examinations of vehicle systems including: oil and lubrication, engine and powertrain, braking, steering and suspension, electrical, fuel and emissions. This course is designed for anyone interested in learning more about their vehicle and basic maintenance.

Automotive Technology II

20104A001

- Year, One Credit
- Grades: 11-12
- Prerequisite: Automotive Technology I or Instructor Approval

Automotive Technology II builds on the skills gained in Automotive Technology I. This course introduces students to the basic skills needed to inspect, maintain, and repair automobiles and light trucks. Instructional units include engine performance, automotive electrical systems, integrated computer systems, lubrication, exhaust and emission control, steering and suspension, fuel system, cooling system, braking, and powertrain.

Advanced Automotive Technology**20104A002**

- Year, One Credit
- Grades: 12
- Prerequisite: Automotive Technology II and Instructor Approval

This course is a continuation and builds on the skills learned in Automotive Technology II. This course includes instructional units in alternative fuel systems, computerized diagnostics, new vehicle servicing, automotive heating and air conditioning, transmissions, testing and diagnostics, drivetrain and overall automobile performance. This is an advanced course that allows the students to work independently on project vehicles.

Woodworking I**136VOC/13052A001**

- Semester (fall), ½ credit
- Grade: 9-12
- Prerequisite: None

This course is designed for the beginner. There are no prerequisites required so the person who knows absolutely nothing is welcome. Students will be taught the safety skills necessary to operate the tools and machines correctly. At the beginning of the year students will be involved in a short amount of bookwork to give them a background in the woodworking field. They will then draw up a blueprint of their proposed project and calculate the amount and cost of the material they will be using. Then it is on to the lab where students will turn their blue prints into actual projects. Emphasis is placed on safety attitudes, work ethic, and the fundamentals that promote high quality workmanship and work habits.

Applied Woodworking**137VOC/13052A001**

- Semester (spring), ½ credit
- Grade: 9-12
- Prerequisite: Woodworking I

This course must be taken at the completion of Woodworking I and is intended to provide additional hands-on practice in the woodworking field. A majority of class time will be spent in building a project that was started in Woodworking I.

Woodworking II**138VOC/17007A001**

- Semester (fall), ½ credit
- Grade: 10-12
- Prerequisite: Applied Woodworking I or Instructor Approval

This course is designed to further expand and hone the skills acquired in the Applied Woodworking I class. Students design and construct custom furniture and cabinetry with increased independence. Students will also learn basic equipment maintenance processes and procedures.

Applied Woodworking II**139VOC/17007A001**

- Semester (spring), ½ credit
- Grade: 10-12
- Prerequisite: Woodworking II

This course must be taken at the completion of Woodworking II. It is intended to provide additional hands-on experience and to provide the student with an opportunity to improve their problem-solving skills and enhance their level of competence as well as craftsmanship. Construction and completion of a cabinet or piece of furniture is a course requirement.

Individual Millworking

140VOC/17007A002

- Year, 1 credit
- Grade: 11-12
- Prerequisite: Applied Woodworking II

This course is designed for the student to develop advanced competence in the skills necessary to design and construct a piece of furniture or cabinetry. The student will design and build a piece of furniture using the highest standards of quality and craftsmanship. Students are encouraged to utilize mathematics including trigonometry to design a project that requires more than just simple square corners. Construction and completion of a cabinet or piece of furniture is a course requirement.

Advanced Individual Millworking

151VOC/17007A002

- Year, 1 credit
- Grade: 12
- Prerequisite: Individual Millworking

This course is designed to hone the student's woodworking skills to a fine point. Accuracy and attention to detail are stressed and expected. This is the final woodworking course offered, and as such, the student is required to work on their own with very little guidance from the instructor. They are expected to exhibit knowledge in the safe use and set up of machines. The correct use and design of wood joints will be incorporated into a project the students will assemble. This class is the culmination of the woodworking classes offered at ROWVA.

Building Trades

17002A001

- Year, 1 credit
- Grade 10-12
- Prerequisite: Woodworking I or Instructor Approval

This course provides experience related to the construction, installation, and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state, and national codes, cost estimating and blueprint reading.

Applied Building Trades

17002A001

- Year, 1 credit
- Grade: 10-12
- Prerequisite: Must be enrolled in Building Trades

This course provides hands-on experience for students enrolled in Building Trades. Students will gain experience in the application of work-site safety, forming and pouring concrete foundations and slabs, framing residential structures, installing windows and doors, siding, roofing, insulation, HVAC systems, electrical installation, plumbing, and interior finishes.

Music

Band

150MUS/05101A000

- Year, 1 credit
- Grade: 9 – 12
- Prerequisite: Instructor approval

This course covers all aspects of the school year, including marching band, pep band, concert band and jazz band. Band stresses music education through the study of various styles of music, public performance and music contests.

Chorus

151MUS/05110A000

- Year, 1 credit
- Grade: 9 – 12
- Prerequisite: None

This is a full-year course for students interested in vocal music. The mixed chorus is an organization of mixed voices that perform mainly classic choral literature. The choral department attempts to put equal stress on education through music and experience through the performance of prepared numbers.

Flags/PE

152MUS/05103A000

- Quarter, ¼ credit
- Grade: 9 – 12
- Prerequisite: Instructor approval

This course is only for those students in color guard who are not also in Band.

Music Appreciation

- Year, 1 credit
- Grade: 9-12
- Prerequisite: None

This Music Appreciation course focuses specifically on students' appreciation of music. It is designed to help students explore the world of music and to develop an understanding of the importance of music in their lives. Music Appreciation surveys different musical styles and periods with the intent of increasing students' enjoyment of musical styles and/or developing their artistic or technical judgment.

Health / Physical Education

Health

160PE / 161PE/08051A000

- Semester, ½ credit
- Grade: 9 – 12
- Prerequisite: None. Health is a graduation requirement.

This course will provide the opportunity for students to learn about systems and structures of the human body, diseases that affect the human body, including instruction on AIDS and sexually transmitted diseases, proper care of the human body including the effects of steroids, personal hygiene, cardiopulmonary resuscitation, first aid and safety, stimulants and depressants, careers in health-related fields, and information on suicide prevention. This course is presented in a lecture format with a textbook and there will be guest speakers. Supplemental materials are used which include films, film strips, slides, magazines and newspaper articles.

Physical Education

172PE / 173PE/08001A000

- Year, 1 credit
- Grade: 9 – 12
- Prerequisite: None. PE is a graduation requirement.

This is a course required for all female and male students to take each semester they are enrolled in high school. The objectives of the course are: to develop a desired degree of physical fitness in the students and also create a desire within the student to remain physically fit not only now, but later in life; to introduce a knowledge and skill in team sports which help to develop a sense of fair play and team spirit; to introduce a knowledge and skill in individual sports which will carry over into the student's life after they leave school, therefore helping to provide for a worthy use of leisure time. The following sports that can be included into the program are flag football, volleyball, bowling, badminton, speedball etc... Students will have written and skill tests in each sport.

PE Waiver – Athletic

176PE

Students in one or more sports are not required to take PE with this waiver. If the sports season is not completed, the PE deficiency must be made up. Not eligible for mid-term graduation. No credits awarded.

PE Waiver – Academic/College-Bound

177PE

Students taking five (5) college-bound credits each semester to qualify for this waiver if they register for a course required by an institution of higher learning. Not eligible for mid-term graduation. No credits awarded.

PE Waiver – Credit

178PE

Students are not required to take PE if they lack sufficient credits to graduate and need a required class. Not eligible for mid-term graduation. No credits awarded.

PE Waiver – Medical

179PE

Students presenting a medical excuse from a physician are excused from PE. Can be eligible for mid-term graduation. No credits awarded.

Driver Education / Consumer Economics

Drivers Education

162DRED/08151A000

166-169DRED/08199A000

- Quarter, ¼ credit
- Grade: 9-10
- Prerequisites: 15 years of age or sophomore. This class is a graduation requirement.

The overall goal of this two-phase course is to produce drivers who are safe, competent, and responsible users of our highway transportation system. The classroom phase of the course should expose the student to an awareness of the job of driving; an understanding of the laws and rules of the road; learning the proper procedures to follow in order to perform basic maneuvers such as proper turns, turnabouts, parks and various emergency techniques; gain an awareness of the 'natural laws' which can affect your car as you drive; gain knowledge about the mental skills needed to be a good defensive driver; gain an awareness of the hazards of the abuse of alcohol as well as other drugs with regard to safe driving; gain an understanding of how emotions can affect your driving; become exposed to information regarding insuring, maintaining, and buying a vehicle. The BTW

(behind the wheel) phase should provide the student with actual driving practice in how to safely operate the car in traffic. Proper turns, turnabouts, various parking techniques will be covered in a variety of driving environments. Mental skills and self-control will also be covered in this phase of the course. The student will also gain experience in what is required for the driving portion of the state test. Eligibility is granted to students who have received a passing grade in at least 8 courses during the past 2 semesters.

Study Skills

11ENG/22003A000

- Quarter, ¼ credit
- Grade 9/10, paired with Drivers Education class

Students will learn to use Google Classroom efficiently. Study Skills will offer students additional time to work on homework. Guest speakers will present information throughout the quarter on a variety of topics geared toward freshmen and sophomores.

*Yearly course offerings will be based on student demand and teacher availability. There will be years when listed electives are not offered in the Master Schedule. Dual credit courses are offered based on demand and students meeting requirements for the courses. Potential dual credit opportunities would be ENG101,ENG102,MAT130,MAT109,PSY101,SOC101, SPE120 and POS122.

ROWVA HIGH SCHOOL
SPED DEPARTMENT
COURSE DESCRIPTIONS

ENGLISH FUNDAMENTALS

15ENG/01001A000

Grade: 9-11

Prerequisites: IEP Team Recommendation

Course Description: An entry level course. Instruction is based on initial and ongoing individual assessment in reading (word recognition, fluency and comprehension) and written language skills. Remediation of reading and written language skills is addressed in the context of modified grade level standards-based instruction, which includes: vocabulary development through the acquisition of affixes, comprehension strategy development (summarization, prediction, question-asking, clarification), recognition of literary devices (figurative language, imagery and symbolism), and written language (paragraph and essay structure, thesis development, accuracy in mechanics through the editing process). The writing process – Planning, Organization, Writing, Editing and Rewrite – is introduced and reinforced throughout the year. Literature includes appropriate selections from the general education curriculum which are modified as needed, as well as other high interest, and self-selected works. Organization skills, follow-through, preparedness, and assuming personal responsibility are emphasized.

Major Projects: Essays and research report

Approximate homework assigned daily: 20 to 30 minutes nightly. (Projects may require more time)

Graduation Requirement: English

Credits: 1

STEP PROGRAM (Secondary Transition Education Program)

STEP Class

184SPED/02072A000

STEP Work**185SPED/22998A000****Grade Level:** 12**Prerequisite:** IEP Team Recommendation/ Acceptance into the STEP Program**Suggested Course Preparation/Critical Skills:** Students must complete the application process as an eleventh-grade student.**Course Description:** This is a government funded program in which twelfth-grade students learn skills for working while receiving one credit for seeking out/securing a job. The focus of the program is to help students improve in the following functional skill domain areas: vocational, recreational, as well as financial. Students receive instruction in the classroom as well as the natural environment with a focus on community integration. Completion of the course prepares students for community vocational, residential and academic placement.**Major Projects/Assignments:** Working at a community a job site, two documented job shadows, and attending monthly field trips to area colleges and career fairs.**Approximate homework assigned daily:** Minimal follow-up work.**Credits:** 1 for class portion; Up to 4 credits for work portion**STUDY SKILLS****181SPED/22003A000****Grade:** 9-11**Prerequisite:** Individual Education Plan team recommendation**Suggested Course Preparation/Critical Skills:** For students to possess the ability to identify when one doesn't understand a task, assignment or problem is beneficial, as is the ability to ask for help. Self-advocacy is always supported.**Course Description:** The Study Skills class supports students in the completion of academic tasks assigned in their general education classes. This class allows students time to bring general education assignment questions to class in order to support assignment completion. This differs from a homework center/study hall in that students do receive major direct instruction in organization, learning, and study strategies, as well as counseling in self-advocacy. Through this class, students are provided the opportunity to work with their counselor on a monthly basis, in order to support IEP goals and general education academic success.**Major Projects/Assignments:** Varies according to teacher. Examples include career and college research report, and personal reflection essays or projects on topics such as IEP goals, personal learning styles/multiple intelligence, progress evaluation, and outside learning experiences.**Approximate homework assigned daily:** Homework is periodically assigned to reinforce the development of skills or strategies necessary for academic success.**Graduation Requirement:** Elective**Credits:** 1**MATH APPLICATIONS/ALGEBRA I AND II****180MATH/02002A000****Grade Level:** 9-10**Prerequisite:** IEP team recommendation**Suggested Course Preparation/Critical Skills:** Students should have successfully completed Pre-Algebra 0.5-1.0 (Specialized Academic Instruction)**Course Description:** This is a two-year Specialized Academic Instruction Algebra course, and is aligned with regular education Algebra I. Students will learn algebraic, consumer, and geometric math concepts to continue to build their understanding of algebra, and as much as possible study math concepts in the context of real life situations. Through textbook work, group work, and various projects, students will concentrate on areas such as inequalities, exponents, polynomials, and probability.**Major Projects/Assignments:** Students will complete at least one project per semester, and will have written final exams.**Approximate homework assigned daily:** 20 to 30 minutes nightly. (Projects may require

more time).

Graduation Requirement: Mathematics

Credits: 1

HISTORY FUNDAMENTALS/CIVICS

Grade: 11-12

Prerequisite: IEP team recommendation

Credits: 1, full year

This course is designed to help students understand the constitution, the three branches of government at the state and federal levels, local city and county government, and the responsibilities of citizenship. In addition, current events will be covered as part of a daily discussion.

GENERAL SCIENCE

Grade: 10-12

Prerequisite: IEP team recommendation

Grade Level: 10-12

Credits: 1, full year

This course is designed to teach students everyday concepts and science-based concepts. Students will be introduced to the vocabulary associated with life science and earth science through an activity-based, small group approach.

MATH APPLICATIONS/GEOMETRY

95MATH/02052A000

Grade: 11-12

Prerequisite: IEP team recommendation

Suggested Course Preparation/Critical Skills: Students should have successfully completed Algebra.

Course Description: This is a Specialized Academic Instruction Geometry course, and is aligned with the first half of regular education Geometry. Students will learn about the mathematics of the properties, measurement, and relationships of points, lines, angles, surfaces, and solids. Through textbook work, group work, several hands-on projects, and studying in the context of real life situations, students will learn about various polygons and such concepts as perimeter, area, volume, and surface area.

Major Projects/Assignments: Students will complete several visual/art projects per semester and will have written final exams.

Approximate homework assigned daily: 20 to 30 minutes nightly. (Projects may require more time).

Graduation Requirement: Mathematics

Credits: 1

SPECIALISTS WHO MAY BECOME INVOLVED WITH THE SPECIAL EDUCATION STUDENTS ON OUR CAMPUS, INCLUDE THE FOLLOWING

- Adaptive Physical Education Teacher
- DRS (Division of Rehabilitation Services)
- Psychologist
- Speech/Language Therapist
- Transition Specialist
- Vocational Specialist

Within the Knox-Warren Special Education co-op there is an IEP Team which meets

periodically and reviews at risk students to determine the need for a referral to special education. If a student qualifies for special education services, then the Individual Education Plan (IEP) is developed. The IEP Team includes the psychologist, parents, student, special and general education teachers, administration and any specialist who needs to be involved. The next step is placement in the least restrictive academic setting to meet the needs of the student. If the student does not qualify for services, the team suggests other options to help the student succeed in school.

Additional Programs:

Galesburg Area Vocational Career Center- Requires special permission from administration. Student is required to pay all tuition and fees and to provide appropriate transportation.

Programs Offered: Law Enforcement, Nursing Assistant, Welding, Building Trades, Fire Science, Auto Tech

CEO Entrepreneur Class- Application by deadline required. Students in this program network with local business leaders and learn how to develop a business plan and start a business. Students must provide their own transportation and class is held at various businesses and not on ROWVA campus. Students may also be required to report to class earlier than the typical school day and attendance is very important.

Dual Credit: Dual credit classes are offered through Carl Sandburg College. English, Speech, Sociology, Economics and Psychology are typically offered. Other choices in classes are available and will be announced by semester. Other choices include Music Appreciation, History, Biology and Ethics. These are usually offered when instructors are available and when there is enough demand for a class. Students need to complete a CSC online application, take the Accuplacer placement exam, and pay tuition to CSC directly to enroll in these courses. Students should discuss this option with their counselor before enrolling. Students may also be able to use previous SAT scores instead of Accuplacer scores for placement.

Graduate Plan: Class of 2020 and beyond (29 credits)

Name:

English Requirements-4 credits

English I

Semester 1 Semester 2

English II

Semester 1 Semester 2

English III

Semester 1 Semester 2

Freshman Writing

Semester

English Elective _____

Semester

Math Requirements- 3 credits

Pre Algebra (Full Year)

Algebra (I or AB)

Semester 1 Semester 2

Geometry

Semester 1 Semester 2

Algebra 1.5 or II

Semester 1 Semester 2

Trig

- Semester 1
Probability and Stats
- Semester 2
Math IV
- Semester 1 Semester 2

**Science Requirements-
2 credits**

1. _____
2. _____

**Social Studies Requirements
2 credits**

US History I

Semester 1 Semester 2

Civics

History elective

Constitution Tests If not
taken in 8th grade

SAT taken

Physical Education- 4 credits
unless waivers are used
junior/senior year (minimum 3
credits if you have taken and
failed PE)

Health Requirement?

9th Semester 1 Semester 2

10th Semester 1 Semester 2

11th Semester 1 Semester 2

12th Semester 1 Semester 2

Waivers?

Yes No

Electives:

Total= _____ credits

Class of 2019 and beyond:

Must have 29 credits to graduate.

Must earn 10 documented service
hours for graduation.

10 hours complete

Class of 2021 and beyond-

- Complete the FAFSA