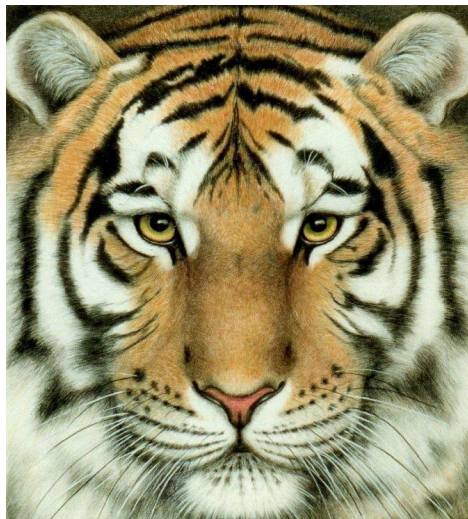


# **ROWVA High School**

## **2023-2024**

### **Course Descriptions**



ROWVA High School  
346 E. Rova Drive  
Oneida, IL 61467  
309.483.6371(p)  
309.483.8223(f)

# **ROWVA Community Unit No. 208**

Dr. James Dunlap, Superintendent

## **Board of Education**

Emily Bean  
Amber Fleming  
Heather Godsil  
Matt Johnson

John Kuelper  
Scott Lake  
Ryan West

## **High School Faculty**

Ben Rees, Principal  
Shane Tucker, Assistant Principal  
Heather Peters, Secretary  
Michelle Westerdale, School Counselor

Amanda Aberle	Jason Lydic
Wes Anderson	Rod Main
Chris Campagna	Judy Post
Jennifer Carlson	Max Roberts
Christa Charlton	James Sams
Brad DeWolfe	Laura Snyder
Josh Fahrenkrog	Amanda Soper
Alysse Hackett	Amanda Webber
Kelly Hannam	Mike Weitekamp
Tina Hufford	Rebecca Weitekamp
Kyle Kimball	Kelsey Wicks
Sarah Koss	Julie White

## Table of Contents

<b>Course Requests and Schedule Changes</b>	<b>4</b>
<b>NCAA Eligibility and Student Athletes</b>	<b>4</b>
<b>COURSES</b>	<b>5</b>
English Department	5
English Electives	7
Mathematics Department	11
Science Department	15
Social Science Department	19
Foreign Language Department	23
Art Department	25
Computer Information Technology Department	25
AP Computer Science Principles	26
Business Department	26
Agriculture Department	27
Family and Consumer Science Department	32
Industrial Technology Department	36
Music Department	38
Health / Physical Education Department	40
Driver Education / Consumer Economics	41
SPECIAL EDUCATION DEPARTMENT	42
ADDITIONAL PROGRAMS:	46
Galesburg Area Vocational Career Center (GAVC)	46
CEO Program Entrepreneur Class	46
Dual Credit	46
Graduate Plan: Class of 2020 and beyond (29 credits)	47

### **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. Scheduling changes must be accompanied by the appropriate paperwork signed by a parent or guardian.

### **NCAA Eligibility and Student Athletes**

[www.eligibilitycenter.org](http://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, 10<sup>th</sup> 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



- Year, 1 Credit
- Grade 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.

## 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 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.

### Mythology

01069A000/ENG89

- Semester, ½ credit
- Grades 10-12
- English Elective

Mythology courses introduce students to the origins and meaning of myths, including how cultures use myths to explain natural or social phenomena. Students will explore the major themes, stories, characters, and archetypes present in the mythologies of several different cultures.

### Mass Communication

104ENG/01155A000

- Year, 1 credit
- Grades 10-12 with approval
- English elective

Communications courses focus on the application of written and oral communication skills through a variety of formal and informal experiences. The courses are performance-based and emphasize effective interpersonal and team-building skills. Communications courses may also involve the study of how interpersonal communications are affected by stereotypes, nonverbal cues, vocabulary, and stylistic choices.

**English Essentials****21ENG/01102A000**

- Semester, ½ credit
- Grades 11-12
- English elective

This course is designed for juniors and/or seniors to build upon previous writing skills. It will reinforce the logic and critical-thinking skills that accompany good writing (word choice, usage, and writing mechanics and writing for a variety of purposes and audiences). The objective of the course is to solidify essential skills that will be necessary for career success.

**Dystopian Literature****22ENG/01065A000**

- Semester, ½ credit
- Grades 11-12
- English elective

This course will include reading, discussion, analysis, and project-based application to improve students' language arts and critical thinking skills. All literature will be focused around the theme of dystopian societies.

**Digital Media Productions****23ENG/01156A000**

- Year, 1 credit
- Grades 10-12
- English elective

This course will be focused on the real world application of communications as students create and manage a class business. The business will produce digital media or marketing packets for school and outside clients. This will be a cooperative class where students will learn to use their strengths to benefit a team.

**Communication****24ENG/01155A000**

- Semester, ½ credit
- Grades 11-12
- English elective

This course will focus application oral communication skills through a variety of formal and informal experiences such as interpersonal and team-building skills. It will also examine how communications are affected by stereotypes, nonverbal cues, vocabulary, and stylistic choices. This is a performance based class, so participation in group discussions and activities will be vital.

**Novels****01053A000**

- Semester, ½ credit
- Grades: 10-12
- English elective

Modern young adult novels will be covered in this class. Literature courses offer the opportunity for students to study and reflect upon the themes presented in the body of literature being presented. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the reading selection and as they understand how the work reflects society's problems and culture. Oral discussion is an integral part of literature courses, and written compositions are often required. Literature courses may



survey representative works, reflect a particular genre or a specific theme, or survey works of a particular time or people

### **Creative Writing**

**01104A000**

- Semester, ½ credit
- Grades 11-12
- English elective

This courses offer students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis of the courses is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. Although most creative writing classes cover several expressive forms, others concentrate exclusively on one particular form (such as poetry or playwriting).

### **AP English Literature and Composition**

**01006A000**



- Year, 1 Credit
- Grade 11 & 12
- AP Exam optional with fee
- Prerequisite: 2 credits of English with a grade of B or higher
- Weighted GPA

This course will be structured to parallel college-level English courses and will enable students to develop critical standards for evaluating literature. Students study the language, character, action and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own, including literary analysis, exposition, argument, narrative, and creative writing.

### **AP English Language and Composition**

**01005A000**

- Year, 1 Credit
- Grade 11 & 12
- AP Exam optional with fee
- Prerequisite: 2 credits of English with a grade of B or higher
- Weighted GPA

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. These courses emphasize the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes.

### **Capstone Offering (Technical Research)**

**25ENG/01105A000**



- Year, 1 Credit
- Grade 12
- Prerequisite: 3 credits of English with a grade of B or higher

This course will be structured as an online course with bi-weekly check-ins and a teacher mentor. The modules will cover MLA research techniques and scholarly writing, hands on learning models, and a final portfolio to be defended by a teacher/administrator panel. Upon successful completion of this course, students will receive capstone cords to wear at graduation.

## English- Aide

2Aide/01995A000

- 1/2 or 1 credit; semester or year
- Grades 11-12
- Prerequisite: Instructor Approval
- General elective

Students will assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

## Dual Credit English

### Introduction to Public Speaking (SPE120)\*

120ENG/01199A000



- 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.*

### 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.

# Mathematics Department

## Applied Algebra I (formerly Algebra AB)

18MATH/02053A000/02054A000



- Year, 1 credits
- Grade 9 – 10
- Prerequisite: ‘C’ or below in 8<sup>th</sup> 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.**

## Algebra I

21MATH/02052A000



- Year, 1 credit
- Grade 9 – 10
- Prerequisite: C or better in 8<sup>th</sup> 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 8<sup>th</sup> 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.**

## Applied Geometry

02071A000/19MATH

- Year, 1 credit
- Grade 10 – 12
- Prerequisite: Algebra or Applied Algebra I

Applied Geometry courses emphasize a practical approach to the study of geometry and deemphasize an abstract, formal approach. Topics typically include properties of and work with plane and solid figures; inductive methods of reasoning and use of logic; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles. **This course (or Geometry) is required for graduation.**

## 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 (or Applied Geometry) 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.**

## Applied Algebra II

35MATH/02055A000

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

Applied Algebra II courses review and extend algebra and geometry concepts for students who have already taken Algebra I and Geometry. Applied Algebra II 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.

## Probability and Statistics



- Year, 1 credit
- Grade 11 – 12
- Prerequisite: C or better in Applied Algebra II or Algebra II, or consent of the instructor

This course will focus on statistical analysis: including summarizing, representing data in charts or graphs, and interpreting data on 2 categorical and quantitative variables - including two-way frequency tables and relative frequencies along with scatterplots, linear regression and correlations. This course also includes a study of elementary probability theory- including conditional probability and permutations & combinations. This course will also study probability distributions, especially the Normal and binomial distributions, along with confidence intervals and hypothesis testing.

## AP Pre-Calculus

MATH/02110A000



- Year, 1 credit
- Grade 11 – 12
- Prerequisite: C or better in Algebra II, or consent of the instructor
- Weighted GPA

AP 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.

## AP Calculus

MATH/02121A000



- Year, 1 credit
- Grade 12
- Prerequisite: C or better in Pre-Calculus, or consent of the instructor
- Weighted GPA

AP Calculus is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions.

## Transitional Math

71MATH/02994A000

- Year, 1 credit
- 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.

**Mathematics- Aide****1Aide/02995A000**

- Semester or Year, 1/2 or 1 credit
- Grades 11-12
- Prerequisite: Instructor Approval
- General elective

Students will assist instructors in preparing, organizing, or delivering course materials. Students may provide tutorial or instructional assistance to other students.

**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 ACCUPLACER exam
- Tuition to CSC

***MAT.110 General Education Statistics***

Using simulations and data collection students will learn how to organize and interpret data. Real-life examples will serve as the focus as students develop mathematical reasoning skills and the ability to read and interpret statistical reports. Calculators and computers will be used extensively. Topics include descriptive statistics (graphs averages variability) elementary probability theory probability distributions hypothesis testing of a single parameter and correlation and linear regression. Applicable toward graduation at Sandburg where program structure permits: Degree or Certificate: AA AS AFA AAS AGS and Certificates where applicable (1.1)

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 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.

IAI Number: M1 902

# Science Department

## Physical 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 is meant to serve as an introductory course to both chemistry and physics topics and does require some mathematical (Algebraic) 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, organization levels, cells, the defining traits for the six kingdoms of organisms, plants, animals, a brief review of genetics, and a short introduction to evolution and ecology. 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 equations and see and appreciate the applications of chemistry to everyday life processes.

## Nutrition Science

**03069A000**

- Semester, 1/2 credit
- Grade 10 – 12

This course focuses on the examination of individual nutrients; their structure and function in the human body; nutrient compositions of food; and selection of food to meet nutrient needs, maintain health and provide satisfaction. Topics covered include digestion, absorption, and metabolism of carbohydrates, lipids, and proteins; vitamins and minerals; physical activity; nutritional needs throughout the life cycle; and evaluation of nutritional claims.

### **Advanced Chemistry I**

**32SCI/ 03101A000**



- Year, 1 credit
- Grade 10 – 12
- Prerequisite: B 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 equations and see and appreciate the applications of chemistry to everyday life processes. This is a prerequisite for AP Chemistry.

### **AP Chemistry**

**33SCI/03106A000**



- Year, 1 credit
- Grade 11 – 12
- Prerequisite: B or better in Advanced Chemistry I or Chemistry I
- Weighted GPA

AP Chemistry is an introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy. 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.

## Forensic Biology

**03214A000**

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

Forensic Laboratory Science courses involve the application of biological, chemical, and physical science principles to data and physical evidence related to evidence collection and analysis. The courses focus on the application of scientific knowledge and scientific principles to collect, preserve, and analyze evidence in a laboratory setting. Topics may include but are not limited to entomology, forensic anthropology, serology, and fingerprinting.

## STEM

53201A000

- 1/2 or 1 credit, semester/year depending on school year
- Grades 10-12

This course is intended to integrate the STEM fields through project based learning. Students will be engaged by frequent hands-on activities geared towards combining each of the STEM disciplines (Science, Technology, Engineering, and Mathematics). Creativity and collaboration will be encouraged as students solve problems.

## 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

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 and classification of animals, including animal reproduction and development.

## Physics

42SCI/ 03151A000



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

Physics is the study of matter, its behavior through space and time, and the related entities of energy and force. This course will cover a wide variety of topics including transnational, rotational, accelerated, and uniform motion, kinetic and potential energies, vectors, momentum, friction, Newton's Laws of motion and gravitation, waves, and sound. Other topics that may be discussed include optics, electricity, and magnetism. This course requires the use of mathematical skills learned in Algebra I and Algebra II as well as some Trigonometry skills. The course will include approximately 20 – 30% lab work designed to reinforce concepts studied.

### **AP Environmental Science**

**1AP/ 03207A000**



- Year, 1 credit
- Grade: 11-12
- AP exam optional with fee
- Weighted GPA

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.

### **Life & Physical Sciences- Aide**

**03995A000**

- Semester or Year, ½ or 1 credit
- Grade: 11-12

Students will assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students and may serve as laboratory assistants.

## **Social Science Department**

### **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**

**HIS23/04051A000**



- 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 \***

**52HIS/ 04102A000**



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

U.S. History I is a survey of American History from 1890 to the 21<sup>st</sup> 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 21<sup>st</sup> Century. Upon completion of U.S. History, 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**

**77HISAPA-B/04104A000**



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

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\*\***

**04157A000**



- Year, 1 credit
- Grade 11 with recommendation, Grade 12
- AP testing available
- Weighted GPA

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. **Course will not be offered during the 2022-23 school year.**

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

### **AP European History**

**04056A000**

- Year, 1 credit
- Grade 11-12, Grade 10 with teacher approval; AP Potential results from College Board
- AP testing available
- Weighted GPA

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. **Course will not be offered during the 2022-2023 school year.**

### **Civics\*\***

**04161A000**



- 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**

**01999A000**

- 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**

**100PSY/ 04254A000**



- Semester, ½ credit
- Grade: 11-12

An introduction to the study of individual human behavior. Course content will include an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

### **Sociology**

**100SOC/ 04258A000**



- Semester, ½ credit
- Grade: 11-12

Introduction to the study of human behavior in society. This course provides an overview of sociology, including topics such as social institutions, norms, socialization, social change, and the relationships among individuals and groups in society.

### **Economics**

**12105A001**



- Semester, 1/2 credit
- Grade 11-12

Overview of economics with primary emphasis on the principles of microeconomics (the part of economics concerned with single factors and the effects of individual decisions) and the U.S economic system. This course may also cover topics such as principles of macroeconomics, international economics, and comparative economics.

### **Macroeconomics**

**12056A001**



- Semester, 1/2 credit
- Grade 11-12

An overview and examination of various approaches to problems in macroeconomics, the part of economics concerned with large-scale or general economic factors, such as interest rates and national productivity.

### **AP Macroeconomics**

**04204A000**



- Year, 1 credit
- Grade 11-12

Following the College Board's suggested curriculum designed to parallel college-level macroeconomics, this course provides students with a thorough understanding of the principles of economics that apply to an economic system as a whole. It places a particular emphasis on the study of national income and price determination and developing students' familiarity with economic performance measures, economic growth, and international economics.

### **AP Microeconomics**

- Year, 1 credit
- Grade 11-12

Following the College Board's suggested curriculum designed to parallel college-level microeconomics, this course examines various approaches to problems in macroeconomics, the part of economics concerned with large-scale or general economic factors, such as interest rates and national productivity.

## History- Aide

04995A000

- Semester or year, ½ or 1 credit
- Grade 11-12

Students will assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

## Psychology (PSY101) \*

100PSY/ 04254A000



- Semester, ½ credit (Dual credit with CSC)
- Grade: 11-12
- Prerequisite: Administrative approval, ACCUPLACER test scores, 3.0 GPA suggested, Carl Sandburg College tuition fees required

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: 11-12
- Prerequisite: Administrative approval, ACCUPLACER test scores, 3.0 GPA suggested, Carl Sandburg College tuition fees required

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. Class may be offered online only. Please refer to the CSC website for up-to-date tuition costs ([www.sandburg.edu](http://www.sandburg.edu)).*

## Foreign Language Department

### 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.

## **Foreign Language & Literature- Aide**

**06995A000**

- Semester or year, 1/2 or 1 credit
- Grade 11-12

Students will assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.



## Art Department

### Art I

**05154A000**

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

In Art I, students will be provided with the knowledge and opportunity to explore a wide range of art forms to create individual works of art. This course will cover the language, materials, and processes of art forms and the design elements and principles supporting work of art. Students will study major artists, art movements, and styles to develop an understanding and response to the visual arts.

### Art II

**05155A000**

- Year, 1 credit
- Grade: 10 – 12
- Prerequisite: Art I

In Art II, studio projects and lectures include work in two and three dimensions to develop the student's abilities to utilize the Elements of Art and Principles of design and further develop drawing, painting, sculpting, and designing skills. Studio experiences will give students opportunities to experience a variety of media while developing the student's individual style and creative-problem solving skills. Students will demonstrate their ability to respond, analyze and interpret their own work and the work of others.

### Studio Art

**05155A000**

- Semester or year, ½ or 1 credit
- Grade: 11 – 12
- Prerequisite: Art I & Art II unless otherwise approved by teacher

Studio Art will allow students to focus on a specific medium(s) of art in an independent study atmosphere. In order for students to take Studio Art, students must successfully complete both Art I & Art II unless otherwise approved by the Art teacher.

### Fine Arts- Aide

**05995A000**

- Semester or year, ½ or 1 credit
- Grade: 11 – 12

Students will assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

## Computer Information Technology Department

### General Computer Science (Computer Concepts & Hardware Apps) 10004A001

- Semester or year, ½ or 1 credit
- Grade: 9 – 12

This is an orientation-level course. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications. Students will explore topics

related to computer concepts, operating systems, and emerging technologies.

### **Advanced Computer Science (Computer Science Principles)**

**10011A001**

- Semester or year, ½ or 1 credit
- Grade: 10 – 12
- Prerequisite: General Computer Science

This is a skills-based course aimed at exploration of innovative technology. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications. Students will explore topics related to computer concepts, operating systems, and emerging technologies.

### **Data Warehouse**

**10011A001**

- Semester, ½ credit
- Grade: 11 – 12
- Prerequisite: Advanced Computer Science

The Data Structures course in C++ teaches students about advanced data structures such as maps, queues and sets, while applying them in larger, real-world assignments and projects.

### **AP Computer Science Principles**

- Semester, ½ credit
- Grade: 11 – 12
- Prerequisite: Advanced Computer Science

Following the College Board's suggested curriculum designed to parallel college-level Computer Science courses, AP Computer Science Principles is a skills-based course aimed at exploration of innovative technology. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications. Students will explore topics related to computer concepts, operating systems, and emerging technologies.

## **Business Department**

### **Finance**

**12103A001**

- Semester or year, ½ or 1 credit
- Grade: 9 – 12

This course focuses specifically on finance, addressing how businesses raise, distribute, and use financial resources while managing risk. The course involved modeling financial decisions (such as borrowing, selling equity or stock, lending or investing) typically undertaken by businesses.

### **Accounting (Banking & Finance)**

**12101A001**

- Semester or year, ½ or 1 credit
- Grade: 10 – 12

This course introduces and expands upon the fundamental accounting principles and procedures used in businesses, including accounting cycle, payroll, taxes, debts,

depreciation, ledger and journal techniques, and periodic adjustments.

## Agriculture Department

### 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 2022-2023*)
- 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 2023-2024*)
- 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 2022-2023*)
- 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 2022-2023*)
- 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 2023-2024*)
- 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.

### **Agricultural Engine Maintenance**

**AGEM1/18405A001**

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

This course provides students with the opportunity to learn how to operate, service, and recondition agricultural power units, emphasizing two- and four-cycle small gasoline engines. This class will provide students with opportunities to troubleshoot and repair speed controls, lubrication, ignition, fuel, power transfer, cooling, exhaust, and starting systems; use hand, power, and overhaul tools; and read and interpret service manuals and parts' catalogs. Additional units of instruction may include power transmission, electrical, and hydraulic/pneumatic systems. Applications may include lawn mowers, tractors, tillers, power tools, and so on. Improving workplace skills will be a focus in this course. 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 2023-2024*)
- 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 agriculture 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 2022-2023*)
- 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 2023-2024)

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.

### **Basic Horticulture Science**

- Grade Level: 9 - 10
- Length of Course: Year
- Credit: 1
- ISBE Code: 18052A001

Course Description: This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. 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.

### **Horticultural Production and Management**

- Grade Level: 11 - 12
- Length of Course: Year
- Credit: 1
- ISBE Code: 18051A001

Course Description: This advanced course offers instruction in both the greenhouse production and landscape areas of horticulture. Units of study include plant identification, greenhouse management, growing greenhouse crops, landscape design, installation, and maintenance, horticulture mechanics, nursery management, and turf production. Agribusiness units will cover operating a horticultural business, pricing work, advertising, and sales. Improving computer and workplace skills will be a focus. If time allows, students

will cover basic agronomic principles. 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.

### **Veterinary Science**

- Grade Level: 11 - 12
- Length of Course: Year
- Credit: 1
- ISBE Code: 18105A001

Course Description: This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Topics to be discussed include veterinary terminology, anatomy, and physiology, pathology, genetics, handling and restraint, first-aid and physical examinations along with common surgical skills. Career exploration will focus on veterinarians, veterinary lab technicians, office lab assistants, small animal production, research lab assistant, and animal nutrition lab technician. 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 Department**

### **Intro to Family & Consumer Science (FCS Exploration)**

**FCS1/22151A001**

- Semester, ½ credit
- Grade: 9-10
- Prerequisite: None

This course provides students the opportunity to develop essential skills in the various career pathways related to Family and Consumer Sciences (FCS). Students will explore and cultivate skills in food and nutrition sciences, childcare, interior design, clothing and textile construction, fashion design and merchandising, consumerism, entrepreneurship, family relationships, personal responsibility, and career and job-related tasks. This course will strengthen comprehension of concepts and standards outlined in Sciences, Technology, Engineering, and Math (STEM) education. Student leadership (FCCLA) may be an integral part of the course.

### **Foods and Nutrition 1**

**120HEC/16054A001/16054A002**

- Semester, ½ credit
- Grade: 9 – 12
- Prerequisite: None (Class is limited to 12 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**

**137HEC/16054A002**

- 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**

**138HEC/16052A001**

- Semester, ½ credit
- Grade: 10 – 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 (Fashion 1)**

**123HECa/19201A001**

- Semester, 1/2 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.

### **Clothing and Textiles/ Fashion 2**

**124HEC/19203A001**

- Semester, 1/2 credit
- Grade: 9 – 12
- Prerequisite: C or better in Fashion 1 (Class is limited to 12 students.)

Students will further strengthen and broaden apparel design and production techniques. In this course, the design and construct intermediate-level projects using various construction techniques. These skills prepare students for the exciting global apparel industry and entrepreneurial opportunities. This course will strengthen comprehension of concepts and standards outlined in Sciences, Technology, Engineering, and Math (STEM) education. Student leadership and competitive events (FCCLA) may be integrated into this course.

### **Clothing and Textiles/Fashion 3**

**9FCS/19203A001**

- Semester, 1/2 credit

- Grade: 10 – 12
- Prerequisite: C or better in Fashion 2 (Class is limited to 12 students.)

The Advanced Fashion Design Merchandising course is designed to provide serious fashion students with knowledge of the various business functions in the fashion industry. The following list of skill standards prepares the student in fashion merchandising with a working knowledge of promotion, textiles, merchandising math, selling, visual merchandising, and career opportunities. This course will strengthen comprehension of concepts and standards outlined in Sciences, Technology, Engineering, and Math (STEM) education. Student leadership and competitive events (FCCLA and/or DECA) may be an integral part of the course. FCCLA related activities and curriculum can be used as an approved part of all Family and Consumer Sciences classes.

### **Housing and Interior Design**

**128HEC/22211A001**

- Semester, ½ credit
- Grade: 10 – 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 with passing grade.

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 (LEAD with FCCLA)**

**139HEC2/22249A001**

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

Human Development introduces the developmental stages of individuals across the lifespan. Students will study biological, cognitive, and social/emotional developmental changes of the individual in the context of the family and society. It emphasizes and demonstrates the vital connections between theory, research, and application. This can be offered as a concurrent enrollment course. Student leadership and competitive events (FCCLA) may be integrated into this course. This course will strengthen comprehension of concepts and standards outlined in Sciences, Technology, Engineering, and Math (STEM) education.

### **Parenting**

**129HEC/22204A001**

- Semester, ½ credit
- Grade: 11 – 12
- Prerequisite: None, 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: C or better in 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.

**Teacher Intern Program****19151A000**

- Year, 1 Credit
- Grade: 12
- Prerequisite: Child Development

Teaching Profession courses introduce students to the principles underlying teaching and learning, the responsibilities and duties of teachers, and the techniques of imparting knowledge and information. These courses typically expose students to and train them in classroom management, student behavior, leadership and human relations skills, assessment of student progress, teaching strategies, and various career opportunities in the field of education.

**FCCLA - Career and Technical Student Organization**

- Dues: \$15/year. Additional cost for conference attendance (optional).

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 Department**

**Introduction to Automotive Services (Introduction Course)****20106A001**

- Year, 1 Credit
- Grades: 9-12 (Offered 2022-2023)
- Prerequisite: None
- Class is limited to 17 students.

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****20104A001**

- Year, 1 Credit
- Grades: 9-12 (Offered 2023-2024)

- 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, 1 Credit
- Grades: 11-12 (Offered 2022-2023)
- Prerequisite: Automotive Technology II AND Instructor Approval

This course is a continuation and builds on the skills learned in Automotive Technology.

This course is project driven, allowing students to work on restoration and kit car projects. Students will participate in the disassembly, cleaning, inspection, restoration and installation of individual components of most vehicle systems such as brakes, steering and suspension, engine and drivetrain. This is an advanced course that also allows the students to work independently on project vehicles.

### **Woodworking I**

**136VOC/13052A001**

- Year, 1 Credit
- Grade: 10-12
- Prerequisite: None
- Class is limited to 10 students.

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 blueprints into actual projects. Emphasis is placed on safety attitudes, work ethic, and the fundamentals that promote high quality workmanship and work habits.

### **Woodworking II**

**138VOC/17007A001**

- Year, One Credit
- Grade: 10-12
- Prerequisite: Woodworking I OR Instructor Approval
- Class is limited to 10 students.

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.

### **Building Trades**

**17002A001**

- Year, One credit
- Grade: 10-12
- Prerequisite: Woodworking I OR Instructor Approval
- Class is limited to 14 students.

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.

## **Music Department**

### **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, and concert band. Band stresses music education through the study of various styles of music, public performance and music contests.

### **Jazz Band**

- Semester, 1/2 credit
- Grade: 9 – 12
- Prerequisite: Instructor approval

This course covers the Jazz music idiom through Jazz Band. This class is meant to serve as an honor band for students who wish to challenge themselves to be the best of the best. Students will practice and perform in Jazz Festivals across the state and work to develop improvisation skills, public performance skills, and high levels of musicianship.

### **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 modern choral literature. The choral department attempts to put equal stress on education through music and experience through the performance of prepared numbers.

### **Color Guard**

- Semester, 1/2 credit
- Grade: 9 – 12
- Prerequisite: Instructor approval

This is a half a semester course for students in the ROWVA Marching Tiger Color Guard. The first part of the semester will cover the marching band show and the second part of the semester will cover the indoor guard show for the year.

This class is meant to focus solely on the color guard to dig deeper into concepts like health and fitness, drill, movement technique, dance styles, and creative expression through movement.

### **Rhythm Section**

**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, jazz band and concert band. Rhythm section stresses music education through the study of various styles: Latin Music, drumline, indoor percussion, Rock, Country, Jazz, Funk, Blues and Pop Music. All students playing an instrument at ROWVA who play: Drums, Bass, Guitar, and Piano will be in this course.

### **Film History**

- Semester, 1/2 credit
- Grade: 9-12
- Prerequisite: None

This is a survey on film through history. Students will discover film and how it connects to our history as a society. Students will understand the basic elements of film and see how these films influenced society and art. Students will analyze the music, cinematography, script, directing/editing and acting. Students will be able to apply knowledge of film elements to their own films they will create.

The films covered in this course are the ones as follows: Gone with the Wind, Citizen Kane, Ben Hur, The Good the Bad the Ugly, 2001 A Space Odyssey, Star Wars, Indiana Jones, Toy Story, The Social Network, and The Avengers.

It is likely that through exploring films of different genres and time periods, we will encounter films that deal with various political views, a variety of language, and themes. Students will approach these through an academic lens, and with an appropriate level of maturity.

### **Music Production**

- Semester, 1/2 credit

- Grade: 9-12
- Prerequisite: None

This is a course meant to teach students the basics of audio production. Students will understand the basic elements of a DAW and how to mix music, work in a studio and create professional quality projects and deliverables. Students in this class will run a weekly podcast. Students will each also develop and create an album idea and act as producers bringing the proper musicians, sound gear, and equipment to create and produce a professional quality project. Students will also participate and help mix and master the final chorus project for the year.

It is likely that through exploring music of different genres and time periods, we will encounter films that deal with various political views, a variety of language, and themes. Students will approach these through an academic lens, and with an appropriate level of maturity.

#### **Music- Aide 08995A000**

- Semester or year long; 1/2 or 1 credit
- Grade 11-12

Students will assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

## **Health / Physical Education Department**

#### **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.

### **Athletic Enhancement**

**08017A000**

- Year, 1 credit
- Grade: 9 – 12

This course is an introduction to human anatomy and physiology as they pertain to human movement and physical performance in sports activities. This course may also emphasize the prevention and treatment of athletic injuries.

### **Physical , Health and Safety Education- Aide**

**08995A000**

- Semester or year long; 1/2 or 1 credit
- Grade 11-12

Students will assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

### **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, and 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.

\*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, MAT110, MAT109, PSY101, SOC101, SPE120.

## **SPECIAL EDUCATION 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:** 9-11

**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

**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:** 10-11

**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

**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 (GAVC)**

Requires special permission from administration. Each student is required to pay all tuition and fees and to provide appropriate transportation. Information available at [www.gavc.org](http://www.gavc.org).

Programs Offered: Law Enforcement, Nursing Assistant, Welding, Machining, Building Trades, Fire Science, Auto Tech, Computer Systems and Technology, Web Development, AR/VR Development, AP Computer Science Principles, Culinary Occupations, Nutrition, and Early Childhood.

### **CEO Program Entrepreneur Class**

Application by deadline required at [www.knoxcountyilceo.com](http://www.knoxcountyilceo.com). 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 and Western Illinois University. 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, Survey of Criminal Justice 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 and/or WIU online application, take the Accuplacer placement exam, and pay tuition to CSC and/or WIU 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)

Graduating Class:

Name:

### English Requirements-4 credits

#### English I

☐Semester 1 ☐Semester 2

#### English II

☐Semester 1 ☐Semester 2

#### Freshman Writing

☐Semester

#### English Elective \_\_\_\_\_

☐Semester

#### English Elective \_\_\_\_\_

☐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

#### Other Math Elective:

☐Semester 1 \_\_\_\_\_

☐Semester 2 \_\_\_\_\_

#### Transitional Math or Math IV

☐Semester 1 ☐Semester 2

### Science Requirements- 2 credits

1. \_\_\_\_\_

2. \_\_\_\_\_

### Social Science - 2 credits

#### US History I

☐Semester 1 ☐Semester 2

#### Civics

#### History elective

#### Constitution Test

If not taken in 8<sup>th</sup> grade

SAT taken ☐

10 Service Hours ☐

Driver's Education ☐

Health Class Requirement ☐

Consumer Ed Requirement ☐  
(Adult Living or Ag Business classes)

**Physical Education- 4 credits**

unless waivers are used

junior/senior year (minimum 3  
credits if you have taken and  
failed PE)

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 2021 and beyond**

- Complete the FAFSA or waiver