

# **CENTRAL LYON HIGH SCHOOL**

## *Course Description Handbook*

2017-18



*Freshmen*

*Sophomores*

*Juniors*

*Seniors*

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## REQUIRED COURSES FOR GRADUATION

(Semester 1)

(Semester 2)

### 9<sup>th</sup> Grade

1. English I	1. English I
2. Physical Science	2. Physical Science
3. Math	3. Math
4. W. History	4. W. History
5.	5. PE
6.	6.
7.	7.
8.	8.

### 10<sup>th</sup> Grade

1. English II	1. English II
2. Biology or Applied Biology	2. Biology or Applied Biology
3. Math	3. Math
4. American History	4. American History
5. PE (either semester)	5.
6.	6.
7.	7.
8.	8.

### 11<sup>th</sup> Grade

1. English III	English Elective
2. Science	2. Science
3. Math	3. Math
4. PE (either semester)	4.
5.	5.
6.	6.
7.	7.
8.	8.

### 12<sup>th</sup> Grade

1. English	1. English
2. Government (either semester)	2. Economics (either semester)
3. PE (either semester)	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.

**\*\*Speech or Speaking Fundamentals (1 semester required prior to graduation)  
-Also recommend Math and Science for college bound seniors**

# FOUR YEAR PLANNING CALENDAR

Time management is an important skill that needs to be developed early. Dividing major tasks into small steps makes it easier to reach major goals. A college education and career goals are major goals much too important to leave to chance. The following calendar is a four-year high school guide indicating key checkpoints. Skim the entire list; then refer to appropriate sections regularly.

Take responsibility for your own future. Investigate options, deadlines, and follow through. Parents, teachers, the counselor and the principal can assist, but responsibility for action is yours!

## FRESHMAN YEAR

- Select high school courses carefully. Choose courses that provide a solid academic foundation and increase your abilities in reading, writing, speaking, math, and higher order thinking skills.
- Select your career focus based on your developing interests and academic strengths at this time.
- Resolve to take control of your life and develop skills that will lead to self-discipline, independence, and lifelong learning success.
- Organize a file system or scrapbook to maintain accurate records of accomplishments. Keep report cards, standardized tests scores, compositions, and special awards of recognition.
- Be prepared to explain your ideas and plans to your counselor during the spring scheduling conference. Listen to information and accept encouragement. Begin to build the ideas and dreams into reality.
- Read magazine articles and books that give information about college preparation.
- Begin a reading program. Carefully choose the books that you read and keep a record. Check with your English teacher for suggestions.
- Volunteer for community service projects.
- Get involved in the high school. Become a member of at least one extracurricular activity each semester. Keep an accurate list of all activities you are involved in. This will come in handy as a senior.

## SOPHOMORE YEAR

- Enroll in challenging academic courses that will allow flexibility as interests evolve. Investigate the Advanced Placement courses at CLHS.
- Become more active in school organizations. Offer to serve on committees and become an active member.
- Talk to your counselor about your interests to help you identify possible career choices.
- Maintain your volunteer activities. Watch for opportunities for leadership.
- Continue to read as much as possible.
- Take the PreACT test and pay careful attention to your results.
- Begin checking out college or technical school requirements before choosing junior classes. The counseling office has a number of catalogs you may use.
- Summer-work at a paying job if you can find one. Begin saving as much as possible for your future education.
- Revise your career focus as needed.

# JUNIOR YEAR

## September – January

- Send for current catalogs and other literature of several selected schools.
- Investigate colleges that offer training in your area of interest.
- Use the I HAVE A PLAN online computer program to gather information about colleges.
- Investigate career materials and post-secondary opportunities through the media center.

## October

- Take the PSAT to be considered for a National Merit Scholarship and other awards and as practice for college entrance exams. Check with the counseling office as to where and when the test will be given. Take the practice test which is included in the registration materials

## November

- Take the Iowa Assessments. This test will help show individual progress throughout high school and provides a measure for college admissions. Additionally, it is good practice at taking standardized tests.

## January-February

- Plan your senior program of studies very carefully with your counselor and parents. The catalogs from the colleges of your choice will indicate courses required and recommended for admission. Begin thinking about probable colleges and possible majors when choosing senior classes.

## March – May

- Read books and magazines that have information about career fields that appeal to you. Talk to people in those fields.
- See your school counselor to determine which entrance exams(s) you should take.
- Fill out registration materials for the ACT. See your counselor for questions.
- Review your Career Major for your senior year.
- Prepare for the ACT exam by taking advantage of the ACT study materials in the guidance office.
- Schedule classes for your senior year.
- Begin making a list of what you think you would like to study and do in college. Rank the items in order of importance to you now.
- Go on one college visit your junior year.

## June – July – August

- Visit some colleges during your vacation.
- Visit businesses you have an interest in. Talk to individuals employed at those businesses. Ask if you can visit or volunteer to work to gain insights and experience. Establishing contacts and experiences to include in your resume are invaluable.

# SENIOR YEAR

## August – September

- Review your selection of classes for your senior year. Schools are looking for students who have strong academic backgrounds, good grades, extra-curricular activities, good attendance and leadership skills. Colleges are most interested in the academic background to prepare you for post-secondary education.
- Keep your grades up. Colleges frown on students who quit working before they graduate or have “senioritis”.
- Register for the ACT or SAT if you have not already completed the test(s) or if you need to retake them.
- Review the materials in the counseling office regarding colleges and careers you are interested in.
- Continue membership in school and community organizations. Run for a class or club office. Even if you do not win, you will learn some valuable things about yourself. Remember... you will never gain anything if you are afraid to take a few risks.
- Secure a FSA ID for you and your parents if you plan to submit the FAFSA online.

## October – November

- Talk with your parents about costs and how your education will be financed.
- Begin meeting with the counselor concerning schools that best suits you.
- Update your activity record on your activity sheet found in the counselor’s office.
- Begin applications for colleges you have an interest in.
- Visit with various college representatives who come to CLHS.
- Make official visits to those colleges and schools that interest you.
- Apply for scholarships you may qualify for.
- Attend the financial aid meeting sponsored by the school counselor. You will gain valuable information regarding scholarships, loans, grants, etc. Bring your parents if possible because they are very much involved in the decisions you are soon going to make.
- Complete and submit the FAFSA.

## December

- Spend time reviewing information in the media center on careers.

## January

- You should have applied to several colleges you are interested in by now.
- Apply for scholarships, loans & grants.

## February

- Apply for scholarships, loans & grants.
- Visit colleges with your parents. Be prepared to ask questions that cannot be answered by reading the catalogs.
- Ask your counselor to submit mid-year grades if any of the colleges to which you have applied request them.

## March – April

- Make sure your registration materials are in proper order. Most colleges will notify you by April concerning your registration and acceptance. Once you have decided which college is best for you, notify other schools where you have applied and withdraw your registration.
- Apply for scholarships, grants & loans.
- Visit colleges if you are still undecided.

(Senior Year continued)

May

- Complete any enrollment procedure necessary to hold your place.
- If you are “wait-listed” at a college you are eager to attend, call or write to the Director of Admissions and ask how to strengthen your application. Recent academic or other achievements may help.
- If you were denied admission, see your counselor at once about alternatives. Your counselor may suggest steps you can take to alter a college’s decision.
- Send acceptance deposit by deadline specified. Respond promptly to all requests from your college.
- Sign up with your chosen college to take the CLEP tests (College Level Examination Program). Many colleges participate in this program. Students may take tests to satisfy core hours of credit. There is a fee and some colleges charge for credit earned. Check with the college of your choice for regulations regarding CLEP.
- Request that a final transcript with grades and proof of graduation be sent to your college.
- If you have taken college classes during high school, request a final transcript from the institution to be sent to the college/university you choose to attend for your degree.
- ENJOY & CELEBRATE!!!!!!

## **CENTRAL LYON COMMUNITY SCHOOL DISTRICT**

### **MULTICULTURAL/GENDER FAIR EDUCATION - Code No. 603.4**

Students will have an equal opportunity for a quality education without discrimination, regardless of their race, religion, socioeconomic status, color, sex, marital status, national origin, sexual orientation, gender identity or disability.

The education program is free of discrimination and provides equal opportunity for the students. The education program will foster knowledge of and respect and appreciation for the historical and contemporary contributions of diverse cultural groups, as well as men and women, to society. Special emphasis is placed on Asian-Americans, African-Americans, Hispanic-Americans, American Indians, and persons with disabilities. It will also reflect the wide variety of roles open to both men and women and provide equal opportunity to both sexes.

### **EQUAL EDUCATIONAL OPPORTUNITY - Code No. 102**

The board will not discriminate in its educational activities on the basis of age, race, color, national origin, gender, sexual orientation, gender identity, marital status, socioeconomic status, disability, religion, or creed.

The board requires all persons, agencies, vendors, contractors and other persons and organizations doing business with or performing services for the school district to subscribe to all applicable federal and state laws, executive orders, rules and regulations pertaining to contract compliance and equal opportunity.

The board is committed to the policy that no otherwise qualified person will be excluded from educational activities on the basis of race, color, national origin, gender, sexual orientation, gender identity, marital status, socioeconomic status, disability, religion, or creed. Further, the board affirms the right of all students and staff to be treated with respect and to be protected from intimidation, discrimination, physical harm and harassment.

### **GENERAL INFORMATION** **CLASS LOAD**

The minimum class load will be 6 full credit subjects each semester, plus physical education for all students. (Band or chorus may be counted as a subject). Students in both band and chorus must also take 4 academic subjects.

All physically able students shall be required to participate in the PE program for a minimum of one-half credit during each year they are enrolled except as otherwise provided in this paragraph. A student may be excused from this requirement by the principal of the school in which the student is enrolled under one of the following circumstances:

1. The student is enrolled in a cooperative, work-study, or other educational program authorized by the school which will require the student's absence from the school premises during the school day.
2. The student is enrolled in academic courses not otherwise available.
3. The student has provided the school a Doctor's note excusing them from PE.



## **REQUIREMENTS FOR GRADUATION**

Students must have earned at least 48 credits to graduate (this includes May Term).

Also, students must pass:

- 4 years of English (including a semester of Speech)
- 3 years of Math
- 3 years of Science including (Physical Science and Biology or Applied Biology)
- 3 years of Social Studies including (World History/Geography, U.S. History, Government, and Economics )
- 4 years of Physical Education
- CPR Certification

### **LANGUAGE ARTS**

#### **ENGLISH I (RAI Core Courses)**

2 Credits

Full Year Course

Required for all 9<sup>th</sup> Grade

During the first semester, the freshmen will be using *McDougal, Littell Literature*, Orange Level, which includes a variety of fiction and nonfiction, poetry, and drama. They will read the Shakespearean drama *Romeo and Juliet*. The students will read the novel *To Kill A Mockingbird*.

During the study of short stories, students will be introduced to numerous literacy terms, the understanding of which is necessary to adequately discuss the reading selections. The goal for this semester is to have students understand the make-up of a short story or novel, the elements that can be found within the work, and the ideas (themes) that can be extracted through interpretive thinking.

The material read during this quarter exposes the students to various cultures and ethnic groups. They have an opportunity to read about the plights of those people who struggle for recognition or independence. The stories also offer an insight into lifestyles outside the Midwest. Through careful reading the students can not only learn from the reading but also experience lifestyles of people in parts of our country and the world.

During the second semester, Grammar and Composition is required for all Freshmen. In this course the students are given a review of traditional Grammar; including the parts of speech, parts of a sentence, phrases and clauses. The students then move on to word usage and correct use of verbs and pronouns.

#### **ENGLISH II (RAI Core Courses)**

2 Credits

Full Year Course

Required for all 10<sup>th</sup> Grade

English composition for the first twelve weeks is a continuation of the basic grammar, which is covered, in the second semester of the ninth grade. Emphasis is placed on sentence revision, paragraph development, and composition writing. Mechanics, including punctuation and capitalization, will also be taught/reviewed.

The remainder of the second quarter and the third and fourth quarters will be an in-depth study of various literary genre. Students will add to the literary terms introduced in the freshman year and utilize them in the analysis of the works read. The text book, *McDougal, Littell Literature* contains the majority of the material the students will read. After a unit on the short story, students will read *The Pearl*, *A Raisin in the Sun*, and Shakespeare's *Julius Caesar*. Novels to be read will be *Lord of the Flies*, a novel examining man's relationship with one another and with society, and *When the Legends Die*, a novel about cultural heritage.

**ENGLISH III (RAI Core Courses)** 1 Credit One Semester Course  
Required for all 11<sup>th</sup> Grade (1st Semester)

The first quarter of English III deals with American Literature, primarily poetry and short story. The second quarter deals with grammar. During both semesters, students work with vocabulary to improve reading skills and test scores.

**BASIC WRITING I (RAI Core Courses)** 1 Credit One Semester Course  
Elective for Grades 10, 11, and 12

Focuses on first-level skills of effective paragraphs. Students will progress to business letters and resumes. By the end of the semester students will compose short essays.

**THE NOVEL (RAI Core Courses)** 1 Credit One Semester Course  
Elective for Grades 11 and 12

The goal of the course is to explore classic and contemporary novels dealing with basic human experiences such as maturing, learning self-awareness, developing relationships with others, and examining a person's place in society. Both traditional classics, such as *Great Expectations*, and contemporary classics, such as *Catch 22*, *One Flew Over the Cuckoo's Nest* and *The Great Gatsby*, will be read.

**SPEECH (RAI Core Courses)** 1 Credit One Semester Course  
Required in Grade 10, 11, or 12 or Speaking Fundamentals

The purpose of speech is to help students feel more comfortable speaking when in front of an audience by learning how to plan, prepare, and present a variety of speeches. Types of speeches include impromptu, demonstration, informative, and persuasive.

**SPEAKING FUNDAMENTALS (RAI Core Courses)** 1 Credit One Semester Course  
Required for Grades 10-12 or Speech

This course introduces elements of speech and principles of effective speaking. Emphasis is placed on understanding communication, interpersonal speaking skills, and performance and skills in preparing and presenting a public speech.

**THE NOVEL II (RAI Core Courses)** 1 Credit One Semester Course  
Elective in Grade 11 or 12  
Prerequisite: Novel I

This one-semester elective course for Seniors will be an independent reading course with grade determined by contract. Students will select works from a pre-determined reading list and after the reading of each novel will demonstrate understanding through written and/or oral reports. Although The Novel is not a prerequisite, students are encouraged to take it prior to enrolling in the Novel II.

**READING AMERICAN LITERATURE (RAI Core Courses)** 1 Credit Half Year Course  
Elective in Grades 10, 11 and 12 (2<sup>nd</sup> Semester)

This course studies American Literature from the 1600s to the present. Building comprehension and vocabulary skills will be emphasized.

**COLLEGE COMPOSITION (RAI Core Courses)** 1 Credit One Semester Course  
Elective for Grade 12

The college composition course seeks to help students achieve competence in written and spoken English. Some of the study is a review of skills previously taught but not always learned or retained. Emphasis is placed on sentence structure and writing skills.

A partial requirement of the course is a research paper to assist the college-bound senior. The paper centers on gathering information and using that research to support an argument thesis. In addition, a series of compositions will be written.

**JOURNALISM (RAI Core Courses)** 1 or 2 Credits Full or Half Year Course  
Elective in Grades 11 and 12: OPEN TO 9<sup>TH</sup> & 10<sup>TH</sup> GRADERS WITH APPROVAL OF WRITING SAMPLE.

The purpose of the class is to assist in the preparation of the yearbook and school newspaper. Journalistic skills, such as news writing, editorial writing, editing, and making headlines are taught. Students are required to write news articles and complete yearbook layouts.

To take this class, a student will be required to have a 3.0 GPA or higher in their high school English courses, or submit a news article that could be used for the school newspaper with a positive critique by the English department.

## MATHEMATICS

The freshmen class is ability-grouped in their mathematics classes of General Math, Pre Algebra, or Algebra I.

### **Math Progressions:**

- 1) Gen. Math, Pre-Algebra, Basic Geometry
- 2) Algebra I, Basic Geometry, Geometry, Algebra II
- 3) Algebra I, Geometry, Algebra II, Advanced Math or Calculus

**GENERAL MATH** 2 Credits Full Year Course

General Math is available to freshmen with below average mathematical skills, through instruction of this course, the student will:

- improve their mathematical skills.
- understand the need of mathematics in the world of work
- obtain a feeling of success in performing mathematics.

Students will be expected to work realistic problems focusing on real application of mathematics.

**PRE ALGEBRA** 2 Credits Full Year Course  
Pre-requisite: 8<sup>th</sup> grade math or General Math – Grades 9 and 10

This class is designed for a transition into the Algebra I course. Students must have successfully completed eighth grade math or one year of general math. Students will cover topics such as: algebraic expressions, working with factors, fractions, and exponents, solving equations and inequalities, solving linear functions, finding area and volume, and also working with right triangles.

**ALGEBRA I (RAI Core Courses)** 2 Credits Full Year Course  
Pre-requisite: 8th Grade Math or Pre Algebra

This is a course extending basic mathematical concepts to the use of variables. Solving problems with an unknown will also be presented. Students assigned to this class must have a sound math background and will improve their logical thinking. This course provides the fundamentals of a standard algebra course: simplifying variable expressions, solving equations, graphing linear and quadratic equations, and problem solving.

**BASIC GEOMETRY** 2 Credits Full Year Course  
Pre-requisite: Pre-Algebra. - Elective in Grades 10, 11, or 12

**GEOMETRY (RAI Core Courses)** 2 Credits Full Year Course

Pre-requisite: Algebra I - Elective in Grades 10, 11 and 12

In this course, the student will:

- 1) Work with points, lines and planes
- 2) Use reasoning and proof
- 3) Work with parallel and perpendicular lines
- 4) Solve problems with congruent triangles
- 5) Study relationships within triangles
- 6) Solve problems involving quadrilaterals
- 7) Find area, surface area & volume of geometric figures
- 8) Solve problems using trigonometry

**ALGEBRA II (RAI Core Courses)** 2 Credits Full Year Course

Pre-requisite: Algebra I and Geometry

Algebra II is the third class in our series. You must take Geometry as a prerequisite to Algebra II. Algebra II will cover the topics:

- 1) Tools of Algebra
- 2) Functions, Equations, & Graphs
- 3) Linear Systems
- 4) Matrices
- 5) Quadratic Equations and Functions
- 6) Polynomials
- 7) Radical Functions
- 8) Exponential and Logarithmic Functions
- 9) Rational Functions
- 10) Quadratic Relations
- 11) Sequences and Series
- 12) Probability and Statistics
- 13) Periodic Functions and Trigonometry
- 14) Trig Identities and Equations

Algebra II is the prerequisite to Calculus. You will need to take this class during May Term if you plan on taking AP Calculus or Advanced Math the following year.

**ADVANCED MATH (RAI Core Courses)** 2 Credits Full Year Course

Pre-requisite: Algebra II – Grade 11 & 12

This class is for students who would like to take a fourth year of math but do not wish to take calculus. The topics in this class will cover pre-calculus topics; ACT prep; history of math; and real world situations. The student will cover topics in Trigonometry, Discrete math, Analytic Geometry, and algebraic functions. The book uses numerous examples, real-world examples, graphs, diagrams and other illustrations that help students visualize concepts.

**CONSUMER/BUSINESS MATH** 2 Credits Full Year Course

Pre-requisite: Pre-Algebra Grades 11 and 12

This class will cover topics in mathematics that relate to business and personal finance. It will cover topics such as checking accounts, insurance, taxes, the stock market, loans, and much more. We have not selected a textbook for this class yet so we can't list all of the topics that will be covered.

**AP\*CALCULUS (AB) (RAI Core Courses)**                      2 HS Credit/ 3 College Credits    Full Year Course

Pre-requisite is Algebra II **and** instructor's approval. **College credits are dependant on receiving a 3 or above on the end of year AP exam.**

This class is a full year course and the content is comparable to a calculus I course at colleges and universities. It is expected that the students that take this course will seek college credit from an institution of higher learning. To get college credit, students will need to take a comprehensive final exam that is administered within the first two weeks of May each year. The result of that test determines if they will receive college credit.

The student will also receive high school credit for taking this class. So, even if they do not do well enough on the test to receive college credit, they will still get their high school credit assuming they have passed the class.

This class will be extremely challenging and have a very demanding work load.  
Daily attendance is very important.

## **SCIENCES**

**PHYSICAL SCIENCE (RAI Core Courses)**                      2 Credits                                      Full Year Course  
Required for Grade 9

Physical Science is a year long, full credit, required course, available to freshmen with no pre-requisite. Through instructions in this course the student will:

- practice laboratory skills and use safety procedures in the physical science laboratory.
- understand physical laws explaining the relationship between matter and energy.
- illustrate observation and experimentation are the basis of scientific inquiry and experimentation.
- realize many technological developments utilize the properties of light and sound.
- understand the effective use of energy now and in the future is linked directly to scientific knowledge and human resourcefulness.
- examine a variety of physical science careers.

Students will be expected to show a competency in laboratory procedures and safety as well as account for the basic physical science concepts.

**APPLIED BIOLOGY**    2 Credits                                      Full Year Course  
Required for Grade 10 or Biology

This biology is for students who wish to learn and understand the basic components of biology. It is not recommended for the college bound student.

Biology is a year long, full credit, required course, available to sophomores with no pre-requisite. Through instruction in this course, the student will:

- use and care for the tools of the biology laboratory, especially the microscope and dissecting tools.
- understand the classification of living organisms into a five kingdom system
- understand basic concepts of the chemistry of life.
- recognize the cell and its function as the basic structure and function of life.
- be able to understand the structure and function of the single celled organisms to the multi-celled organisms.
- examine a variety of life science careers.
- implements applied biology activities.
- understand the various systems of the human body.

Students will be expected to show a competency in laboratory procedures and safety as well as account for the basic biology concepts.

**BIOLOGY (RAI Core Courses)**  
Required for Grade 10 or Applied Biology

2 Credits

Full Year Course

One of two options to fulfill the requirement of sophomore biology. This course is designed as an inquiry-based curriculum. It not only provides students with an ability to understand fundamental principles, but allows students to apply these principles to their everyday lives. Through instruction in this course, students will:

- learn about the various life processes and how they occur
- distinguish between living and nonliving things
- recognize the cell, its part, and their functions
- debate current issues involving various living things
- study the various pathogens and how they are transmitted
- understand the human immune system and how it works
- examine means for preventing and curing disease
- learn about various diseases and their genetic links
- students will examine the expression and inheritance of traits
- understand modern genetics
- know DNA as the blueprints of life and the changes that occur with it
- perform various dissections
- understand various systems of the human body
- learn the events involved in growth, development, and change
- discover external factors that affect organisms
- understand the life cycle

**AP BIOLOGY (RAI Core Courses)**

2 Credits

Full Year Course

Pre-requisite is instructor's approval. **College credits are dependent on receiving a 3 or about on the end of year AP exam.** Elective in Grades 10, 11 and 12

The AP Biology course is designed to enable you to develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The result will be readiness for the study of advanced topics in subsequent college courses – a goal of every AP course.

This AP Biology course is equivalent to a **two-semester college introductory biology course** and has been endorsed enthusiastically by higher education officials.

**ENVIRONMENTAL SCIENCE – (RAI Core Courses)**

2 Credits

Full Year Course

The goal of the Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

**CHEMISTRY (RAI Core Courses)**

2 Credits

Full Year Course

Pre-requisite: Algebra I - Elective in Grades 11 and 12

Through instruction in this course, the student will:

- understand the properties of matter.
- develop proportional reasoning skills.
- perform laboratory experiments to reinforce concepts and to understand the importance of uncertainty in scientific work.

Students will be expected to demonstrate their understanding of matter, they will also be expected to do careful laboratory work and write a report on the results.



create our current governmental structure. Political parties, the election process, and our responsibilities as citizens will also be covered.

**ECONOMICS (RAI Core Courses)** 1 Credit One Semester Course  
Required for Seniors

Students will develop a basic understanding of economic principles and an in-depth knowledge of our economic system. Topics to be covered include personal finance, financial markets, fiscal policy, the Federal Reserve System, and international trade.

**SOCIOLOGY (RAI Core Courses)** 1 Credit One Semester Course  
Elective for Juniors or Seniors

Students will examine groups and how they influence our behavior. Students will gain a basic understanding of social institutions, socialization, social problems, and social movements. Additional topics will include adolescence, deviance, race, education and religion. This is a college prep course and is recommended for those planning to attend a four year college.

**PSYCHOLOGY (RAI Core Courses)** 1 Credit One Semester Course  
Elective for Juniors and Seniors

Preference is given to seniors. Students will examine how individuals act, think, and relate to each other in order to obtain a better understanding of human behavior. Topics covered include learning, altered states of consciousness, mental illness, therapy, and stress. This is a college prep course and is highly recommended for those planning to attend a four year college.

**WORLD HISTORY (RAI Core Courses)** 2 Credits Full Year Course  
Required for Freshman or Sophomores

World history tells the stories of people, events, and institutions from the earliest civilizations to modern times. Focus will be placed on the beliefs of those in the past, the ways they met their economic needs, the social and political institutions they formed, and the culture they transmitted from one generation to another.

This course also integrates the teaching of Geography and History. Geography is not taught as a separate subject but is included in every lesson as needed, through maps, diagrams, photographs, and text descriptions.

**WORLD GEOGRAPHY** 1 Credit One Semester Course  
Independent Study

World Geography takes students on a journey around the world in which they will learn about the physical and human geography of various regions. They will study the history of each region and examine the political, economic, and cultural characteristics of the world in which we live. Students will also learn about the tools and technologies of geography such as globes, maps, charts, and global information systems.

**VIETNAM** 1 Credit One Semester Course  
Independent Study

Students will develop an in-depth understanding of the Vietnam War by studying its origins, the politics of the war, effects on the home front, the military effort, and the ultimate end of the war.



## **BUSINESS & COMPUTER/OFFICE EDUCATION PROGRAM**

With input from a vocational advisory committee and in partnership with Northwest Community College of Sheldon, IA, we offer students a technical education program containing three-sequential units in the area of General Business.

### **BUSINESS EDUCATION PROGRAM**

#### **ACCOUNTING**

2 Credits

Full Year Course

Elective for Grades 10,11 & 12

Accounting I will teach students of the basic concepts that happen in day to day operations of proprietorships, corporations, and partnerships. Financial record keeping is an essential element for business to function efficiently. Even though accounting is often referred to as the language of business, almost all people use knowledge of accounting in personal financial activities. Understanding the accounting cycle is the basis of a first-year accounting course. The students will be introduced to fundamental transactions for service and merchandising businesses organized as sole proprietorships, partnerships, and corporations. Students will also have a better understanding of payroll procedures and banking activities. The program will provide ample opportunity to practice basic accounting skills through business simulations. Although the high school accounting students will be able to find good entry-level accounting or bookkeeping positions, the real demand is in the professional accounting area. For those students who desire to become a professional accountant, they should continue with Accounting II and plan to continue their education through post-secondary options. Students will also have the opportunity to use computer applications through using automated accounting software.

#### **ENTREPRENEURSHIP**

1 Credit

One Semester Course  
(2<sup>nd</sup> Semester)

Elective for Grades 9, 10,11 & 12

Entrepreneurship is a one semester course. The focus of the course will be the exploration of owning your own business. The entrepreneurial world is changing and so are we. Students today need to realize becoming a business owner is a career option. Entrepreneurship will encourage students to examine all the major steps involved in starting a business: Ownership, Strategy, Finance, and Marketing.

#### **BUSINESS & PERSONAL LAW**

1 Credit

One Semester Course

Elective for Grades 10, 11 & 12

The role of law its impact on business will be studied in an online format. Topics include contract law, ethics, employment, regulations, criminal and civic procedures, consumer law, and career opportunities in business law.

#### **PERSONAL FINANCE**

1 Credit

One Semester Course

Elective for Grades 11 & 12

Personal Finance is a one semester course. The course is most applicable to junior or senior students. The purpose of the course is to contribute to the improved economic understanding through a study of the business and economic environment in which we live. Economic understanding is geared toward the development of individuals who 1) are knowledgeable of our American business system, 2) are competent in managing their own business affairs, and 3) prepared to present themselves professionally when searching for employment.

## COMPUTER/OFFICE PROGRAM

### **BUSINESS COMPUTER APPLICATIONS**

1 Credit

One Semester Course

Elective for grades 9-12

The major emphasis of the first three weeks of the class will focus on introduction to Windows 10 and new updates to technology. The balance of the class will be devoted to an in depth study of various up-to-date and leading business software programs in the areas of word processing, spreadsheet, data base, and others as time allows. The hardware employed will be a networked system using Windows 10. Successful completion of this class will provide the student with a basis for computer literacy and skills necessary to capitalize on the benefits available through the use of modern computer technology in their personal and professional careers.

### **INTRODUCTION TO PROGRAMMING**

1 Credit

One Semester Course

Elective for grades 9 – 12

Prerequisite: Business Computer Applications

This is a basic level computer programming course. You will work with HTML, CSS, Java Script, and C++ through interactive sites.

### **WEB PAGE**

1 Credit

One Semester Course

Elective for grades 9, 10, 11, 12

Students will learn web design techniques, create and enhance digital images, and locate resources on the Internet; then contribute these skills to creating and managing a portion of the Central Lyon web page. Students will also take and enhance digital images using *Adobe Photoshop*. An option for those interested is to use and learn *audacity* and contribute to the podcast KA-POW.

### **WEBMASTER:**

1-2 Credits

One or Two Semester Course

Elective for grades **11 & 12**

Pre-requisites: Web Page class & special permission from instructor.

Students will edit and proofread student-created web articles, in addition to planning and creating KA-POW podcasts and polls for [www.centrallyon.org](http://www.centrallyon.org). This position requires attention to detail, a high interest in computers, and the ability to work independently. Limited number accepted for this role.

## FOREIGN LANGUAGE

### **SPANISH I(RAI Core Courses)**

2 Credits

Full Year Course

Elective in Grades 9-12

Spanish I is an introductory course. The main emphasis is on oral communication but reading and writing activities are incorporated into each unit as well. Each of the 15 units has a basic theme from which the instructional material is taught. These units consist of vocabulary exercises, grammar concepts, cultural presentations, reading activities and writing activities. In Spanish I they will learn how to use the present, future and past tenses, how to conjugate regular and irregular verbs and how to use adjectives and object pronouns.

One half hour is expected in daily preparation. Grading is based 1/2 on quizzes, written work and unit tests, and 1/2 is based on oral communication and classroom participation.

**SPANISH II (RAI Core Courses)** 2 Credits Full Year Course  
Pre-requisite: Spanish I- Elective for Grades 10-12

Although the emphasis is still on oral communication, the students will delve more deeply into the grammar of year one and add the preterit of irregular verbs, the commands, the imperfect and the subjunctive. The students will be expected to write more detailed compositions. Speaking in the target language will also be expected. One half hour of daily preparation is expected. Grading is based 1/2 on oral communication and classroom participation, and 1/2 on written work, tests and quizzes.

**SPANISH III (RAI Core Courses)** 2 Credits Full Year Course  
Pre-requisite - Spanish II

We will continue with the same grammar but more extensively. The present perfect, the past perfect, the conditional and the past subjunctive will be introduced. Students will apply their knowledge in compositions and projects, and through testing and speaking proficiencies. With the exception of explaining new grammatical techniques, students will be expected to speak in the target language at all times. Grading is based on 1/2 oral communication and classroom participation and 1/2 written work, tests and quizzes.

**SPANISH IV (RAI Core Courses)** 2 Credits Full Year Course  
Pre-requisite: Spanish III

Students will have a general review of all grammar and will learn the finer points of the language. They will be exposed to music, literature and art from various Spanish-speaking countries. Spanish will be spoken at all times. As in previous years grading is based on 1/2 oral communication and classroom participation and 1/2 written work, tests and quizzes.

**THE AP SPANISH LANGUAGE COURSE (RAI Core Courses)**  
2 HS Credit/ 3 College Credits Full Year Course

Pre-requisite: will be Spanish III **and** instructor's approval. **College credits are dependent on receiving a 3 or above on the end of year AP exam.**

This course will help to prepare students for the AP Spanish Language Examination. The course will be conducted entirely in Spanish and the students are encouraged to practice the target language. The course will consist of a grammar review and reading and discussing short stories in Spanish. Throughout the year the class will be practicing the skills needed for the exam such as reading, listening, speaking and writing by using authentic materials. In May the students will be expected to take the AP Spanish Language Exam.

## **FAMILY AND CONSUMER SCIENCES**

With input from a vocational advisory committee and in partnership with Northwest Community College of Sheldon, IA, we offer students a technical education program containing three-sequential units in the area of Family and Consumer Sciences.

**FAMILY LIVING** 1 Credit One Semester Course  
Elective for Grades 9, 10, 11, and 12

This course develops a life plan including pathways to knowledge and skills needed to achieve individual, family and career goals relating to Family and Consumer Science.

Areas to be covered: (1) Personal Development and relationships (2) Families (3) Child care and development (4) Foods, Nutrition, and Wellness (5) Food Preparation and Careers.

**INTRO TO TEXTILES & APPAREL**

1 Credit

One Semester Course

Elective for Grades 9, 10, 11, and 12

This course introduces students to the knowledge, skills, and practices needed for life or careers relating to textiles and apparel.

Areas to be covered: (1) Impact of clothing (2) Design basics (3) Fibers and Fabrics (4) Sewing Fundamentals (5) Careers in textiles.

**FOODS**

1 Credit

One Semester Course

Pre-requisite: Family Living

Elective for Grades 9, 10, 11, and 12

Areas to be covered: (1) history of foods (2) nutrition - food analysis (3) dietary planning (4) food preparation (5) Safe food handling (6) Food related careers (7) Food Science.

**TEXTILES**

1 Credit

One Semester Course

Pre-requisite: Intro to Textiles and Apparel

Elective for Grades 9, 10, 11, and 12

This course uses prior knowledge and skills from Intro to Textiles and Apparel to complete advanced sewing projects. Advanced sewing, projects chosen by students, of various kinds.

**HOMES BY DESIGN**

1 Credit

One Semester Course

Elective for Grades 10, 11 and 12

Areas to be covered: Architectural Home Designs, History of Homes, Understanding Design of Interiors, Furniture Styles, Creating Your Own Dream Home.

**TODAY'S FAMILY**

1 Credit

One Semester Course

Elective for Grades 10, 11, and 12

Areas to be covered: (1) teen-agers today and decision making (2) dating (3) engagement (4) human sexuality (5) marriage (6) parenthood (7) current family issues.

**SINGLE SURVIVAL**

1 Credit

One Semester Course

Elective for Grade 12 (Seniors only)

Areas to be covered: (1) clothing maintenance and care (2) nutrition (a) familiarizing them with basic cooking utensils and their uses (3) food preparation (4) finances and management of individual resources.

**CHILD DEVELOPMENT**

1 Credit

One Semester Course

Pre-requisite: Family Living

Elective for Grades 10, 11, and 12

Areas to be covered: (1) Parenting (2) Pregnancy and Birth (3) The First Year (4) Ages One to Three (5) Ages Four to Six (6) Caring for Children (7) Children of special needs (8) Developmental stages of children.

**INDUSTRIAL TECHNOLOGY**

With input from a vocational advisory committee and in partnership with Northwest Community College of Sheldon, IA, we offer students a technical education program containing three-sequential units in the area of Construction Trades.

- **Cost of Supplies for projects will be at student's own expense.**
- **All students will supply their own safety glasses or purchase them from the school.**
- **All students will supply their own tape measure.**

**\*CONSTRUCTION CAREERS**  
Elective in Grades 9, 10, 11, and 12

2 Credits

Full Year Course

This is a comprehensive course offered to all students who have had no technology courses. The course will emphasize an introduction to woodworking and hand tool usage, portable power tool usage and stationary power tool usage. It is also an introduction to general shop safety and cleanup, proper tool usage, assembly operations, design consideration, and ordering specifications. Experiences are provided to aid students in developing competent technical skills in woodworking and related areas. \*Features: required projects and elective projects.

**BUILDING TRADES AND MANUFACTURING**

2 Credits

Full Year Course

Pre-requisite: Construction Careers  
Elective in Grades 10, 11, and 12

Building Trades is a two-hour elective block course, available to sophomores, juniors, and seniors. Through instruction in this course the student will:

- Understand all facets of basic carpenter construction.
- Understand how to read floor plans and blue prints for building construction.
- Understand how to formulate home construction estimates including a bill of materials, and cost estimates.
- Be exposed to available careers in the field of carpentry; such as electrical, plumbing and cabinetry.
- Practice shop skills (including proper use of tools) and use shop safety at all times.
- Understand the basic concepts of floor framing, wall framing, and roof framing.
- Be able to distinguish the difference between rough carpentry and finish carpentry
- Establish a hands on experience in residential electrical and plumbing

\*Features: We will be constructing/assembling a small scale home that will go through all the processes of building construction. This includes; floor framing, wall framing, roof framing, interior flooring, cabinetry, installing windows and doors, plumbing, electrical, and other specific types of interior designs.

**APPLIED WOOD TECHNOLOGY**

1 Credit

One Semester Course

Pre-requisite: Construction Careers  
Elective in Grades 10, 11, or 12

The course is designed for the student who works to further regard wood applications. Students will develop and research technical skills. Special emphasis will be put on cabinet making and introduction on power tools, special setups, and tool safety.

\*Features: Required project, then proceed to own project

\* Student needs to be prepared to have a project in mind.

**APPLIED WOOD TECHNOLOGY II**

1 Credit

One Semester Course

Pre-requisite: Construction Careers  
Elective in Grades 10, 11, or 12

The course is designed for the student who works to further regard wood applications. Students will develop and research technical skills. Special emphasis will be put on cabinet making and introduction on power tools, special setups, and tool safety.

- \*Strictly work on their own project
- \*Student needs to be prepared to have a project in mind.

**MECHANICAL CONSTRUCTION** 1 Credit One Semester Course  
 Elective in Grades 10, 11, 12

This course is a comprehensive course that includes theory with a laboratory setting for students to demonstrate what they have learned in the classroom. This course will show how Two-Cycle, and Four-Cycle gas engines are constructed, how they operate, what goes wrong, and how to service and repair them.

Through instruction in this course and in the laboratory setting the student will understand:

- Tools and Measuring Instruments
- Engine Construction and Principles of Operation
- Two-Cycle vs. Four-Cycle Engines
- Carburetion, Fuel and Emissions Control Systems, Ignition Systems
- Fasteners, Sealants and Gaskets, Lubrication Systems, Pistons
- Engine Inspection, Disassembly, and Cylinder Reconditioning
- Fuel System Service, Ignition System Service, Cooling Systems
- Bearing, Crankshaft, Valve, and Camshaft Service
- Lawn Care Maintenance

**METAL CONSTRUCTION** 1 Credit One Semester Course  
 Pre-requisite: Construction Careers  
 Elective in Grades 11 and 12

Metal Fabrication is a semester long, co-educational, elective course, available to juniors and seniors. Through instruction in this course the student will:

- Understand the many types and gauges of metal and many of their uses.
- Understand the following forms of welding: Arc, Wire Feed, Oxy-Acetylene, Brazing, and other state of the art welding methods.
- Understand the different methods of metal bending and cutting including torch cutting and plasma cutting.
- Understand and practice proper technique for the above mentioned types of welding.
- Be exposed to available careers in the area of metal fabrication.
- Understand and practice project planning including: project design and construction, bill of materials, and cost estimate.
- Practice shop skills and use safety practices in the area of metal fabrication.

**ADVANCED METAL CONSTRUCTION** 1 Credit One Semester Course  
 Pre-requisite: Metal Construction  
 Elective in Grades 11 and 12

Advanced Metal Construction is a continued semester long course that takes the principles learned in the basic metal construction class and continues into more advanced levels of welding and fabrication.

\*Features: Working and producing fire pits using the plasma cutter.

**RESIDENTIAL ELECTRICITY CONSTRUCTION** 1 Credit One Semester Course  
 Pre-requisite: Construction Careers  
 Elective in Grades 10, 11, 12

This course will provide students with the basic knowledge and skills to begin employment as an electrician apprentice or electricians helper. The students will be instructed in tool and workplace safety, and will learn about the generation and distribution of electrical power. Students will learn the concepts of electricity by designing and performing hands on work wiring various circuits used in residential, commercial and industrial applications. The students will learn overhead and underground service installation dealing with single phase and three phase systems, branch circuits and motor controls. Students will also become familiarized with the national electrical code and how it pertains to the type of work they are performing. Methods of instruction will include lecture, demonstrations, discussion, films, and hands on practice.

\*Features: Assistance from Meyer Electric which leads to the students wiring the small house that the building trades and manufacturing class will construct.

### **GENERAL CONSTRUCTION (CAD)**

1 Credit

One Semester Course

Elective in Grades 10, 11, and 12

General Construction is a course designed to give students hands on experience with tools and machines of drafting technology. Using traditional and computer drafting equipment the students will learn a written language where ideas are expressed graphic.

## VOCATIONAL AGRICULTURE

With input from a vocational advisory committee and in partnership with Northwest Community College of Sheldon, IA, we offer students a technical education program containing three-sequential units in the area of Agriculture.

### **INTRO TO AGRICULTURE**

2 Credits

Full Year Course

Grades 9-12

Intro to Agriculture is a yearlong, co-educational, elective course, available to freshmen with no pre-requisite. Through instruction in this course, the student will:

- understand all facts of the Animal Science production industry including beef production, sheep production, swine production.
- understand problem solving methods involved in livestock production.
- understand the importance of meat production to our society.
- be exposed to careers available in the Animal Science industry.
- understand the Future Farmers of American organization.
- realize many technological changes taking place in the Animal Science industry.
- practice shop skills and use safety practices in the area of farm construction: carpentry.

Students will be expected to show a competency in shop skills and safety as well as account for the basic Animal Science and FFA concepts.

### **ANIMAL SCIENCE 1**

2 Credits

Full Year Course

Grades 10-12

Prerequisite: Intro to Ag

Take a walk on the wild side receive a more in-depth understanding of animal care and scientific procedures. Through hands-on labs and guided study, learn how to apply animal anatomy, genetics, reproduction, behavior, nutrition, and health to both household pets and large livestock. Basic veterinary procedures and jargon will also be introduced. If you are interested in a career with animals, then this is the course for you!

As a result of this course, students will be able to:

1. Identify the anatomy and describe the physiology of body systems.

2. Articulate ideas and participate in discussion related to animal welfare.
3. Determine the role of nutrients and the nutritional requirements for different stages of animal's lives.
4. Evaluate and employ animal breeding methods.
5. Identify, evaluate and perform general animal care/welfare procedures based on animal's use, species and life stages.
6. Administer care to animals in case of disease, accident or illness.
7. Conduct research on topics related to animal science.
8. Describe different careers within the field of animal science.

## **CROP SCIENCE**

1 Credit

One Semester Course

Grades 10-12

Prerequisite – Intro to Ag

Prepare students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems. We will look in depth in the following areas of plants related to agriculture. This course will also teach you about the importance of the agriculture crops, and the relationship they have on our environment.

- Entomology
- Plant Science
- Crop Science
- Forestry
- Soils
- Shop

## **HORTICULTURE**

1 Credit

One Semester Course

Grade 10-12

Prerequisite: Intro to Ag

This is an introductory level class that will introduce you to the world of plants, gardening, and landscaping. A portion of the class will be devoted to landscaping and the class will be responsible for a landscaping project. You will also learn plant identification as well as plant needs and parts. Definitely, this hands-on course will require you to explore many concepts through discovery and self-teaching.

## **ADVANCED ANIMAL SCIENCE:**

1 Credit

One Semester Course

Grades 11-12

Prerequisite: Intro to Ag, Animal Science 1

This course provides an overview of basic practices and skills used in veterinary medicine. Students will learn livestock physiology, ruminant microbiology, small animal care, and dissection and surgical techniques. Industry leadership and business applications will also be included.

This course will be taught for students thinking about entering the Animal Science or Veterinary Technician programs. It also helps prepare students for achieving their own personal excellence in agricultural careers, leadership, and life-long learning. This is accomplished by:

1. Exploring and understanding the principles of agriculture industries and careers.
2. Developing life skills necessary for future opportunities and employment.
3. Instilling value in contributing service to organizations, individuals, and the community.
4. Building credible experience in authentic leadership and employment roles.



**INTRO TO BIOTECHNOLOGY**

1 Credit

One Semester Course

Grades 11-12

Prerequisite: Intro to Ag; Biology

This course provides instruction in the technologically advanced world of agriculture and life sciences. Students will be exposed to the latest techniques and advances in plant and animal biotechnology. Students will utilize scientific information for real-life application. The course will be carried out through classroom instruction, lab activities, guest speakers, and field trips when possible. Additionally, as FFA members, they will have the opportunity to travel, participate in competitive events, community projects, and recreational activities.

**VETERINARY SCIENCE**

2 Credits

Full Year Course

Grades 11-12

Prerequisite: Intro to Ag

This course provides an overview of basic practices and skills used in veterinary medicine. Students will learn livestock physiology, ruminant microbiology, small animal care, and dissection and surgical techniques. Industry leadership and business applications will also be included.

This course will be taught for students thinking about entering the Animal Science or Veterinary Technician programs. It also helps prepare students for achieving their own personal excellence in agricultural careers, leadership, and life-long learning. This is accomplished by:

1. Exploring and understanding the principles of agriculture industries and careers.
2. Developing life skills necessary for future opportunities and employment.
3. Instilling value in contributing service to organizations, individuals, and the community.
4. Building credible experience in authentic leadership and employment roles.

**AGRI-BUSINESS**

1 Credit

One Semester Course

Grade 12

Prerequisite: Intro to Ag

Senior Ag Student

Through this class, you will be able to develop a personal financial management plan that includes savings instruments and credit. You will have to learn how to develop a marketing plan that would include the following methods of marketing cash, forward contracts, futures contracts, and options on futures. Throughout the semester, we will be working on skill, which include a resume letter of application, job application forms, and interview skill. We will also be covering various aspects of business plans, and how to track your profit/loss.

Students will complete application forms and evaluate their SAE (Supervised Agricultural Experience) programs.

**ART EDUCATION****DRAWING/DRAWING II**

1 Credit

One Semester Course

Elective: Grades 9 - 12

Introduction and exploration of various techniques in drawing. Students will learn to add shape and depth to their artwork and will use different applications including pencil, colored pencil and pastels.

**CERAMICS/CERAMICS II**

1 Credit

One Semester Course

Elective: Grades 9-12

Introduction and exploration of various techniques involving clay. Course will cover hand building and wheel building techniques as well as the application of finishing glazes. Sculptural techniques will be applied in many ways for several different finished products.

**PAINTING/PAINTING II**

1 Credit

One Semester Course

Elective: Grades 9-12

Introduction and exploration of various painting techniques. Students will study and use acrylics, tempera, watercolor and oil based paints and work with a number of ways of applying paint to several surfaces. Students will spend some time viewing, discussing and evaluating the work of famous artists as well as their own works.

**SCULPTURE/3D DESIGN/SCULPTURE II**

1 Credit

One Semester Course

Elective: Grades 9-12

Course will focus on different mediums available for 3-dimensional art. Plaster, wood, glass and other mediums will be used. Students will view famous works and artists as well as create their own designs.

**DIGITAL ART**

1 Credit

One Semester Course

Elective: Grades 9-12

An Art Design class focused on using digital as the medium. Majority of the course will be developing skills using Photoshop. A few animation techniques will be covered as well as some graphic design concepts (using art to communicate ideas).

**WORK STUDY****WORK STUDY**

1 Credit

One Semester Course

Pre-requisite: May Term's Work Place Readiness - Elective in Grade 12

Work Study allows seniors to work two consecutive periods a day at a work site in the community. This provides an opportunity for students to explore an occupational area they may want to pursue following high school or college graduation. There is no pay for this work experience other than the chance to gain valuable on-the-job training from experts in the field.

Students are also expected to carry their own insurance. See Mrs. Harman for more details.

This course is one of the few in the curriculum that is graded ' Pass/Fail '.

**HEALTH EDUCATION****HEALTH I**

1 Credit

One Semester Course

Elective: Grades 10, 11 and 12

(1<sup>st</sup> Semester)

The following areas will be covered in Health I along with a field trip: Self-Responsibility for Wellness, Understanding the Body, Support and Control Systems, Energy and Transport Systems, Endocrine and Reproductive System, Mental Health, Promoting Mental Health, Mental Disorders, Stress Management, Family and Social Health, Healthful and Responsible Relationships, Adulthood, Marriage and Parenthood, Growth and Development, From Conception to Adulthood, Toward Completion of the Life Cycle, Nutrition, Healthful Eating, and Making Decisions about Food.

## **HEALTH II**

1 Credit

One Semester Course

Pre-requisite: Health I –

(2<sup>nd</sup> Semester)

Elective: Grades 10, 11, and 12

Health II will consist of the following areas: Exercise and Fitness, Benefits of Physical Fitness, Designing your Physical Fitness Plan, Drugs, Lifestyle Free From Drug Misuse and Abuse, Lifestyle Without Alcohol Use, Tobacco Free Lifestyle, Diseases and Disorders, Communicable Diseases, Cardiovascular Health, Planning for Health Care, Safety and First Aid, Personal Safety, Emergency Care, Community and World Health, Environmental Health.

## **DRIVERS EDUCATION**

### **DRIVERS EDUCATION**

No Credit

Taught during summer months

State guidelines are followed which require each student to attend a minimum of 30 hours of classroom study and six hours of behind the wheel instruction. Each student must also have a valid learner's permit. Subjects covered include city driving, freeway driving, and driving under adverse conditions. A student must pass both the classroom and driving portions with a least a C average to get a passing grade.

## **MUSIC EDUCATION**

### **BAND**

1 Credit

Full Year

Band is open to all students who have instrumental music training and is an integral part of life at Central Lyon. It is the largest voluntary student organization and has four objectives:

- Cultural - To continue the development of music appreciation and understanding through the study and performance of the best in music.
- Educational - To develop interested and discriminating listeners and provide a well-rounded musical background.
- Service - To lend color and atmosphere to certain athletic and community affairs, while promoting and enhancing the dignity and reputation of Central Lyon at all concert appearances.
- Recreation - To provide all students with an opportunity for worthy use of leisure time, an emotional outlet and good social experiences.

Each student is given an opportunity to participate in marching Band. In addition, Jazz Band is offered and participation is by audition. Stage Band is offered to all beginning jazz players. Ensemble playing and solo work is available to all that want to participate.

### **CHORUS**

1 Credit

Full Year

Vocal Music at Central Lyon is open to any student who wishes to participate and is willing to accept the responsibility of working in a group. It should be stressed that vocal music is not required and that therefore only students with a sincere desire to sing will be allowed to participate. An attempt is made to hold all rehearsals during the school day, but when necessary (especially with regard to small groups and solos), practice sessions may be required outside the school day.

Weekly voice lessons are required of all choir members in which they will learn about and work on singing technique. These lessons will be scheduled by the instructor.

Concert Choir is a select, balanced group of dedicated singers meeting up to five days a week. Literature is varied from the classics to contemporary selections. Emphasis is on performing a wide variety of music from different styles and cultures, singing with proper technique, and good musicianship.

Jazz Choir is a small auditioned ensemble meeting two times weekly, once before school, and once during the school day. The literature consists of jazz and swing music. Members must belong to the Concert Choir.

Swing Choir is a small auditioned ensemble which rehearses once a week during the school day. The literature consists of contemporary pop and Broadway music which students will dance to. Members must belong to the Concert Choir. Ensembles are various small groups which rehearse at various times throughout the year. All-State, Small Group Contest, and concerts provide outlets for these groups.

## **PHYSICAL EDUCATION**

### **STRENGTH & CONDITIONING**

1 Credit

1 Semester Course

Grade Level: 9, 10, 11, 12

This class is designed to increase student awareness of the importance of lifetime fitness. In this class students will be made aware of strength and conditioning principles, and how to incorporate these principles into their daily lifestyle. Students will be actively participating in strength and conditioning activities over a 16-week semester. Students will be tested over strength levels as well as conditioning levels at the start of the 16 weeks, again at the end of the first 8 weeks, and at the end of the semester.

### **FRESHMAN REQUIREMENTS**

The physical education curriculum for 9th grade students is set up to develop team work and basic understanding any of the works and strategy of different activities and to develop some degree of competence in these areas: speedball, touch football and field hockey. They also participate in golf, frisbee, a physical fitness unit, volleyball, gymnastics, basketball, wrestling (boys), weight training, handball, pickle ball, bowling, softball, racquetball, obstacle course and badminton, and cross country skiing. A physical fitness test is given in the spring. Most units are co-educational. The students also participate in aerobics.

### **SOPHOMORE REQUIREMENTS**

The 10th grade students start off in the fall with team sports such as physical fitness, field hockey, speedball, and football. Throughout the year they will have frisbee, golf, handball, weight program, fitness unit, gymnastics, volleyball, basketball, wrestling, bowling, racquetball, obstacle course, badminton, pickle ball, softball, rugby, and cross country skiing. A physical fitness test is given in the spring. Most units are co-ed. The students also participate in aerobics.

### **JUNIOR REQUIREMENTS**

The Juniors are exposed to lifetime sports and individual activities which they will be able to use during their lifetime. The students start off with archery in the fall. Throughout the year they participate in badminton, a fitness unit, gymnastics, basketball, volleyball, handball, racquetball, weight-room program, pickle ball, trap shooting, cross country skiing, bowling, obstacle course, and aerobics.

### **SENIOR REQUIREMENTS**

The Seniors are exposed to lifetime sports and individual activities which they will be able to use during their lifetime. The students start off with archery in the fall. Throughout the year they participate in badminton, a fitness unit, gymnastics, basketball, volleyball, handball, racquetball, weight-room program, pickle ball, trap shooting, cross country skiing, bowling, obstacle course, and aerobics.

## **COLLEGE CREDIT CLASSES-REQUIREMENTS**

- Must be enrolled in at least 6 Central Lyon courses prior to enrolling in an online class
- Parents and students must sign a parental information/waiver form
- Students are responsible for acquiring their own textbook or for the cost of the textbook through Northwest Iowa Community College

- Students must register for college credit classes by May 1 for the college transfer courses and by March 1 for CTE courses
- Students who register for a college class after June 1 will be put on a waiting list in case anyone drops
- Students must be proficient on their Iowa Assessments

## COLLEGE CREDIT CLASSES-ON CENTRAL LYON'S CAMPUS

### **HUMAN RELATIONS FOR THE CLASSROOM TEACHER**

Elective for Grades 11 and 12

1 credit/3 college credits

One Semester Course  
(2<sup>nd</sup> Semester)

This course is designed to develop an awareness of the responsibility of educators in establishing educational programs that attempt to develop sensitivity to and understanding of the different cultural/ethnic groups found in a pluralistic society. This course will include a history of the discrimination that many minority groups have encountered in North America and possible educational strategies for dealing with the problems minority groups have encountered in the educational process. Students must be proficient on the Iowa Assessments to take this class.

### **FOUNDATIONS OF EDUCATION**

Elective for Grades 11 and 12

1 credit/3 college credits

One Semester Course  
(1<sup>st</sup> Semester)

This course is an examination of teaching as a potential career, discussions of the goals of education, roles of teachers, historical development of education, educational reforms, alternative and current philosophical issues, and human relations aspects of teachings. Successful completion of this course will allow the student to earn dual credit (high school and college). A student must be proficient on the Iowa Assessments to take this class. The three college credits earned will be through Northwest Iowa Community College in Sheldon.

### **DIRECTED OBSERVATION**

1 credit/1 college credit

One Semester Course  
(2<sup>nd</sup> Semester)

Student observation of education to gain direct insight in the way schools function, roles and responsibilities of teachers, and student behavior.

**Prerequisite: EDU210: Foundations of Education;** The request for this course is being made because some colleges require hours in the classroom during Foundations of Education. This course is the course NCC combines with Foundations of Education to meet that requirement.

## Concurrent Enrollment Courses

### **College Composition I (RAI Core Courses)**

1 HS credit/3 college credits

One Semester Course

**Prerequisite: Is only open to seniors and they must be enrolled in Grammar or have taken Grammar at the same time as College Composition I.**

You will develop skills in written communication through various experiences including expository, persuasive, and research papers. Instruction will also include basic research and documentation skills.

### **College Composition II(RAI Core Courses)**

1 HS credit/3 college credits

One Semester Course

**Prerequisite: Composition I**

This course focuses on helping you develop advanced writing skills in order to compose analytical and persuasive essays. You will use advanced research and critical thinking skills to respond to and compose essays based on current issues and enduring questions.

**Public Speaking (RAI Core Courses)**

1 HS credit/3 college credits

One Semester Course

The emphasis in this course is placed on actual speaking experiences. Instruction focuses on the theory of preparation and presentation, application and practice, observation and listening, and on the giving of critical feedback. Types of speeches assigned will include informative, persuasive and special occasion.

**Intro to Sociology (RAI Core Courses)**

1 HS credit/3 college credits

One Semester Course

This course introduces you to the field of sociology which is the study of the relationship between the individual and society. Topics covered include culture, social organization, groups, deviance, race, and ethnicity and methods of affecting social change. Language and methods are discussed

**Intro to Psychology (RAI Core Courses)**

1 HS credit/3 college credits

One Semester Course

This course provides exposure to a variety of topics in exploring and studying the human experience. Coverage includes basic neuroanatomy, perception, memory, personality, emotion, learning, psychological disorders, social diversity, and attention is also given to the language and methods of psychology.

**Western Civ- Ancient to Early Modern (RAI Core Courses)**

1 HS credit/3 college credits

One Semester Course

This course is a survey of the evolution of Western Civilization from prehistory to the emergence of the nation-state. Topics include the birth of the first civilization; Greece and Rome; the rise of Christianity; the disintegration of the Roman Empire; and the Early, High and Late Middle Ages.

**Western Civ-Early Modern to Present (RAI Core Courses)**

1 HS credit/3 college credits

One Semester Course

This course is a survey of the evolution of Western Civilization from the rise of the nation-state to the present. Major topics include the French Revolution and the Age of Napoleon; 19<sup>th</sup> century developments such as liberalism, the Industrial Revolution, socialism, nationalism, and imperialism; and the great wars and upheavals of the 20<sup>th</sup> century.

**College Algebra (RAI Core Courses)**

1 HS credit/4 college credits

One Semester Course

**Prerequisite: Two years of high school algebra are required.**

This course is designed to strengthen and expand the algebra skills required for further mathematical study in trigonometry and calculus. The emphasis is on using the concept of an algebraic function to model real-life situations. Different types of models including linear, polynomial, exponential, and logarithmic models are presented along with the supporting algebraic skills and procedures. You are required to have a graphing calculator for this course.

**Developmental Psychology**

1 HS credit/3 college credits

One Semester Course

This course provides an overview of human development through the lifespan. Topics covered include prenatal, infant, early childhood, middle childhood, adolescence, and all stages of adulthood. Physical, cognitive, psychological, and social development are considered at each stage in the lifespan in an interactive manner. The language and methods of developmental psychologists are discussed.

## **Abnormal Psych**

1 HS credit/3 college credits

One Semester Course

**Prerequisite: Introduction to Psychology**

This course introduces the language and treatment methods of abnormal behaviors, those outside of the range of normal human experiences. Topics covered include disorders affecting mood, anxiety, personality, and substance use. Other topics include schizophrenia, mental retardation, autism, and cognitive disorders as well as legal and ethical issues.

**There are a variety of online classes offered through NCC. If you are interested in an online class, please see Mrs. Harman for further details.**