

# Lisbon High School

## Program of Studies

2024-2025



# Lisbon High School Program of Studies

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# Lisbon Community High School

## Course and Graduation Requirements

### Grade Promotion and Credit Requirements:

9th through 12th grade students are required to be registered for **8 courses** each semester. 12th-grade students are required to be registered for **7 courses** each semester. All classes except Early Bird PE and work study are worth one credit per semester. A student must pass a minimum of 13 credits per year to be promoted to the next grade level.

### Total Credits required for Graduation:

**Class of 2021 and beyond** **52 credits**

### Required Courses by Subject for Graduation:

<b>English</b> – 4 years	<i>English I, English II and choice of electives</i>
<b>Math</b> – 3 years	
<b>Science</b> – 3 years	<i>Must include Physical Science, Biology, Chemistry</i>
<b>Social Studies</b> – 3 years	<i>These must include: 2 credits American History 1 credit Government 1 credit Economics</i>
<b>Career Readiness</b> – 1 semester	
<b>Health</b> – 1 semester	
<b>Physical Education</b> – 4 years (one credit per year)	
<b>Current CPR Certification</b>	

### Other requirements for receiving a Lisbon High School diploma:

- As many graduation credits as possible must be earned at Lisbon High School.
- Seniors must obtain all credits before they can participate in the graduation ceremonies and receive a diploma.
- The total number of credits may be waived only if the student has transferred in from a school district that does not require students to take seven classes at a time.

Academic and Career Planning Division I of House File 2392 focuses on academic and career planning for all students in 8<sup>th</sup> through 12<sup>th</sup> grade. The end goal is for students to create a clear plan that focuses on successful transition from high school to their individualized postsecondary plans. Every student in the Lisbon School District will explore a wide variety of career options based on the national career clusters and select coursework that deepens understanding of opportunities available in their current area of interest. Students will engage in the development of a well-thought out plan that is annually reviewed to ensure alignment with the student's career and academic goals. Please contact your student's school counselor for more detailed information regarding individual planning opportunities. Please continue on the following pages for more information on the National Career Cluster Framework.

## Alternative Concurrent Enrollment (ACE) Courses

According to Iowa Senior Year Plus legislation, all students who have extended the educational program of our institution may enroll in courses as a part-time student at any local post-secondary institution. (For example, a student may take classes at Kirkwood if Lisbon does not offer an equivalent course.) ACE courses earn variable high school credit based on seat time and letter grades earned will be recorded on the LHS transcript, used to compute high school GPA. Some courses are taught at Lisbon High School. Other courses are offered through online classes with the community college. **If a student decides to drop a course after the first two weeks of class, they will receive an F on their Lisbon transcript and it will affect their high school GPA. In addition, students who drop a class or receive a failing grade will be ineligible for extracurricular participation.** If a student fails a Kirkwood course at the end of a semester and desires to take another Kirkwood course it would require an academic plan that would be shared with administration, counselor, and parents. If a student wishes to retake a course to improve their college GPA, they may do so at their own expense, but it will not replace the grade included in their Lisbon GPA and official transcript.

The LHS tuition reimbursement to the post-secondary institution for each ACE course shall equal the lesser of the actual/customary cost of tuition, required textbooks, materials, and fees directly related to the course. This amount is paid by the school district. **All required textbooks are loaned to students during the course and MUST be returned to the High School Counselor upon completion of the course, or Kirkwood Community College will charge the student for the textbook.** If there are non-required books for a course, the student must choose whether to purchase these books for the class and they become the property of the student. Students may enroll in summer courses at their own expense.

Students interested in enrolling in ACE courses must:

1. Register/Apply as a Kirkwood student and receive their K number.
2. Inform the counselor that they plan to enroll and then register on Kirkwood's Dual Enroll site for the courses desired.
3. This Act **DOES NOT** include summer classes at post-secondary institutions.

## Student Proficiency Standards for Participation in Concurrent Enrollment Programs

1. Proficiency in previous corresponding course work during Freshman and Sophomore year. In a traditional grading system, this would be a grade in the "C" range or higher
2. Proficiency on standardized assessments and/or ALEKS when required for specific courses.
3. A High School GPA of 2.8 or greater
  - a. Students who have a GPA lower than 2.8 but have earned a 3.0 GPA (or higher) in recent content specific classes.
  - b. For Sophomores, Kirkwood would recommend at least a 3.3 GPA (or higher).
4. GPA and assessment requirements do not apply to CTE courses (Academies, Industrial Tech, Business, etc.)
5. Students not meeting the above requirement need to have two recommendations from Lisbon teachers.
6. Other criteria as stated by the Iowa Department of Education in their guidance dated July 14, 2020

# Kirkwood Career Academy Courses

These college classes are offered through a partnership between Lisbon High School and Kirkwood Community College. The unique cooperation provides high school students hands-on career experience and transferable college credit at **NO COST** to their families! This program allows students to explore career pathways of interest with hands-on and relevant classes from industry experts. Students taking these classes earn both high school and college credit. Please ask your school counselor if you have questions regarding these classes or the schedule for next school year.

## Kirkwood Career Academies at Jones Regional Center

[Download the full program of study packet](#)

[Advanced Manufacturing & Welding Academy](#)

[Architecture, Construction and Engineering Academy](#)

[Automotive Technology Academy](#)

[Digital Arts, Social Media, and Marketing Academy](#)

[Emergency Medical Technician \(EMT\) and Fire Science Academy](#)

[Liberal Arts Transfer Academy](#)

[Patient Care Exploration Academy](#)

[Pre-Med, Nursing, and Professional Health Careers Academy](#)

## Kirkwood Career Academies at Linn Regional Center

(List subject to change)

[Download the full program of study packet](#)

[Application and Software Development Academy](#)

[Business Academy](#)

[Criminal Justice and Human Services Academy](#)

[Dental Assisting Academy](#)

[Education Academy](#)

## COURSES – STUDENT DROP / ADD REQUESTS

At Lisbon High School, the staff believes that all students can learn at a high potential and that they need to be in challenging and rigorous classes. Students, and their parents, are responsible for determining and accepting the course of study for which they register. They must plan very deliberately, always keeping in mind high school graduation requirements, individual abilities and interests, and post high school plans. Schedule adjustments will be made for **academic reasons only**. In many cases, parent permission will be required, but does not guarantee a schedule adjustment. Students are to limit their visits to the counseling office to make schedule changes to **“one and done”**. Students will need to check PowerSchool to determine if their request has been accepted and if their schedule has changed before attending any new classes.

Students must request to drop or add courses within the first two (2) days of each semester. Dropping a class after the third day will result in a grade of “F” on the student’s transcript. Drop / Add forms requiring parent and teacher signatures will be used to make any schedule change. **Kirkwood has its own deadlines, Lisbon students must adhere to Lisbon drop deadlines, not Kirkwood’s, due to the difficulty of adding classes weeks into the school year.**

Schedule changes are limited and will be based on the following criteria:

1. Will be made during your free time/study hall time only. You will not be excused from classes to make changes.
2. Only adds or drops are allowed. Shuffling of classes to align free time or change teachers is not permitted.
3. No additions to sections with enrollment already at the designated maximum level.
4. Changes can be made for legitimate educational reasons. If you have extenuating circumstances that you believe justify a schedule change please see the counselor. Unless there are unusual circumstances, the counselor will not allow changes such as:
  - a. to change teachers
  - b. to change to a friend’s class
  - c. to change to a section with more students than the section you are already in.
5. Administrative approval may be required for some schedule changes.

# NCAA DIVISION I and II - Eligibility Standards

*All Student-Athletes who are interested in participating in Division I or II athletics in college **MUST Register with the NCAA Initial - Eligibility Clearinghouse***

## Core Courses

- **NCAA Division I and Division II require 16 core courses.**
- **NCAA Division I will require 10 core courses** to be completed **prior to the seventh semester** (seven of the 10 must be a combination of English, math or natural or physical science that meet the distribution requirements below). These 10 courses become "locked in" at the seventh semester and cannot be retaken for grade improvement.

## Test Scores

- In January 2023, NCAA Divisions I and II adopted legislation to remove standardized test scores from initial-eligibility requirements. Check with the NCAA school you plan to attend regarding whether standardized test scores are necessary for admission or scholarship requirements.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading and science.
- **When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.**

## Grade-Point Average

- **Your GPA is calculated based on the grades you earn in NCAA-approved core courses.** Only your best grades from the required number of NCAA core courses will be used. For example, if you took 18 classes that counted toward your 16 core classes, we will count the 16 with the highest grades to meet the core-course distribution requirement. This ensures you are getting the highest GPA possible. This [core-course worksheet](#) may help.
- **Be sure** to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website ([www.eligibilitycenter.org](http://www.eligibilitycenter.org)). Only courses that appear on your school's List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.
- **Division I** GPA required to receive athletics aid is 2.30.
- **Division II** core GPA requirement is a minimum of 2.20.

<u><a href="#">Division I - 16 Core Courses</a></u>	<u><a href="#">Division II - 16 Core Courses</a></u>
4 years of English.	3 years of English.
3 years of mathematics (Algebra I or higher).	2 years of mathematics (Algebra I or higher).
2 years of natural/physical science (1 year of lab if offered by high school).	2 years of natural/physical science (1 year of lab if offered by high school).
1 year of additional English, mathematics or natural/physical science.	2 years of social science.
2 years of social science.	3 years of additional English, mathematics or natural/physical science.
4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).	4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).

*Please contact the NCAA Clearinghouse website at [NCAA Eligibility Center](#) for more specific information about NCAA initial-eligibility standards. Choose the "General Information" website link or*

*Contact the NCAA Clearinghouse directly via: Toll-free phone: Customer Service Line 877-262-1492  
Customer Service Hours: 8:00 a.m. – 6:00 p.m. Monday through Friday*

## High School Course Requirements for College Admissions

In addition to meeting the Regent Admission Index requirement, students must complete the minimum number of high school courses specified below for the institution to which they're applying.

Subject Area	Iowa State University	The University of Iowa	University of Northern Iowa
English/ Language Arts	<b>4 years</b> of English/Language Arts emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.	<b>4 years</b> , with an emphasis on the analysis and interpretation of literature, composition, and speech.	<b>4 years</b> including one year of composition; also may include one year of speech, communication, or journalism.
Math	<b>3 years</b> , including one year each of algebra, geometry, and advanced algebra.	<b>3 years</b> , including two years of algebra and one year of geometry, for admission to the College of Liberal Arts and Sciences.  <b>4 years</b> , including two years of algebra, one year of geometry, and one year of higher math (pre-calculus or equivalent), for admission to the College of Engineering.	<b>3 years</b> including the equivalent of algebra, geometry, and algebra II.
Natural Science	<b>3 years</b> , including at least two years of courses which emphasize elements of biology, chemistry, or physics.	<b>3 years</b> , including courses in physical science, biology, chemistry, environmental science, and physics for admission to the College of Liberal Arts and Sciences and Engineering.  <b>3 years</b> , including one year each of biology, chemistry, and physics for admission to the College of Nursing..	<b>3 year</b> , including courses in general science, biology, chemistry, earth science, or physics. Laboratory experience highly recommended.
Social Studies	<b>2 years</b> for admission to the Colleges of Agriculture, Business, Design, Human Sciences, and Engineering.  <b>3 years</b> for admission to the College of Liberal Arts and Sciences.	<b>3 years</b> , with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences.  <b>2 years</b> , with U.S. history and world history recommended, for admission to the College of Engineering.	<b>3 years</b> including courses in anthropology, economics, geography, government, history, psychology, or sociology.
World Language	<b>2 years</b> of a single world language for admission to the College of Liberal Arts and Sciences and the College of Engineering.	<b>2 years</b> of a single world language are required for admission. For many degrees, the fourth year of proficiency is required for graduation.  Nursing-Minimum second-level proficiency in one world language.	World language courses are not required for admission. However, two years of a foreign language in high school with a C- or above in the last course will meet the university graduation requirement.
Other Courses	Specific elective courses are not required for admission.	Specific elective courses are not required for admission.	<b>2 years</b> of additional courses from the required subject areas, world language, or fine arts.



# Regents Admission Index

## *College Admission Requirements for Iowa's three state universities.*

Use this to calculate your index, which is part of the admission requirements for Iowa high school students applying to Regent Universities.

Iowa high school graduates must achieve a Regent Admission Index (RAI) score of at least 245 and take the minimum number of [required high school courses](#) to qualify for automatic admission as freshmen to Iowa State University, the University of Northern Iowa, and the College of Liberal Arts and Sciences at the University of Iowa. The [RAI Core Course Lists](#) provide each Iowa high school with a list of their respective courses that are accepted for the RAI. Students who achieve a score less than 245 will be considered for admission on an individual basis.

The RAI combines factors that strongly predict success at the Regent Universities: ACT or SAT test score, high school cumulative grade-point average and the number of completed high school core courses.

Below is a detailed description of the RAI formula:

The RAI Formula

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$$\begin{aligned} & (3 \times \text{ACT composite score}) \\ & + (30 \times \text{Cumulative GPA}) \\ & + (5 \times \text{Number of years of RAI-approved high school courses completed in the core subject areas}) \end{aligned}$$

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= RAI score

### **Which core courses count in the RAI?**

Any college-prep course in English, mathematics, science, social studies, and world language can be used in calculating a student's RAI score. To be considered for admission, students must have taken (or plan to take) at least 20 college-prep courses (full-year) including the following:

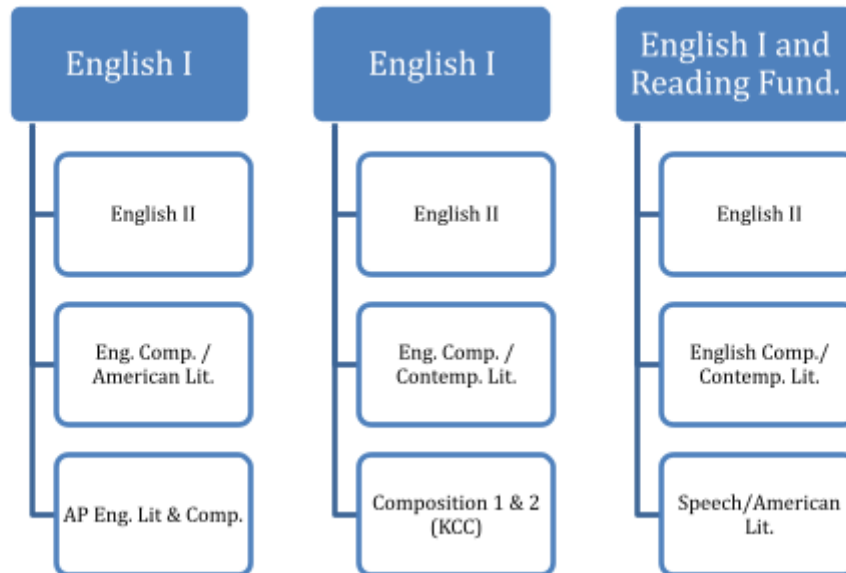
- 4 years of English
- 3 years of mathematics, including Algebra I, Algebra II, and geometry (STEM requires a 4<sup>th</sup> year of mathematics)
- 3 years of social studies
- 2 years of the same world language
- 3 years of science, including one year of biology, chemistry, and physics

All other courses in these areas (above and beyond those required for admission), can be used in calculating the RAI. High school counselors can help students and parents determine which courses qualify as "college-prep" or students can call the Office of Admissions. *NOTE: Post-secondary entrance requirements are changing yearly and becoming more demanding. It is the responsibility of the student and parent to find out about those requirements before selecting the student's high school courses each year.*

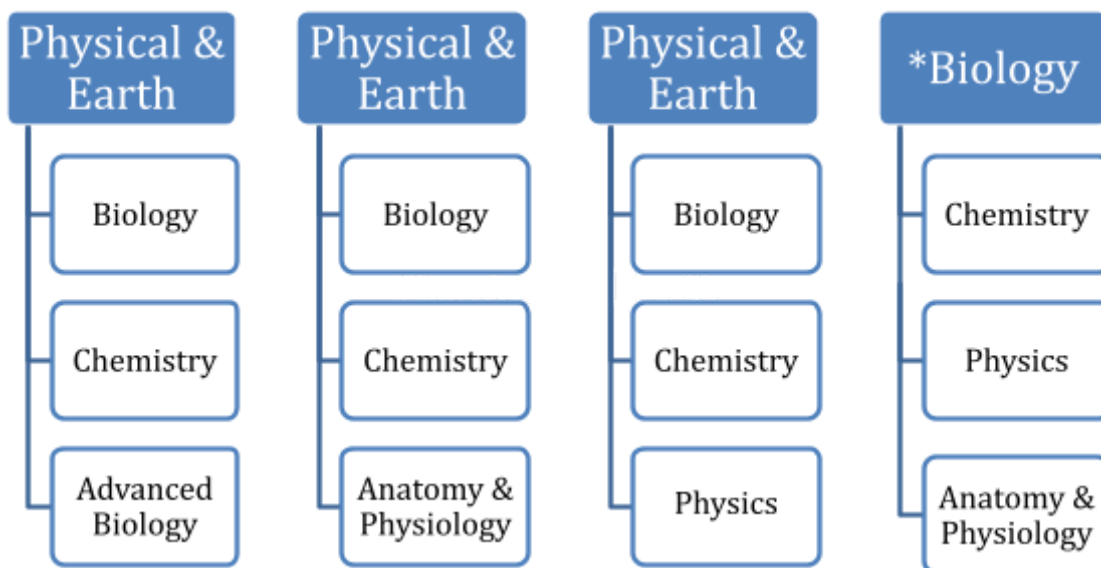
# Course Sequences

The first box in each sequence indicates classes to be taken during the freshman year. The progressions help to map out suggested classes for students to take in following years.

**English** sequences are based on a student's English grades in 8<sup>th</sup> grade and state testing results. Students will begin with English I unless they need assistance with reading comprehension. Not all English courses are accepted for college admissions, so check with your school counselor.

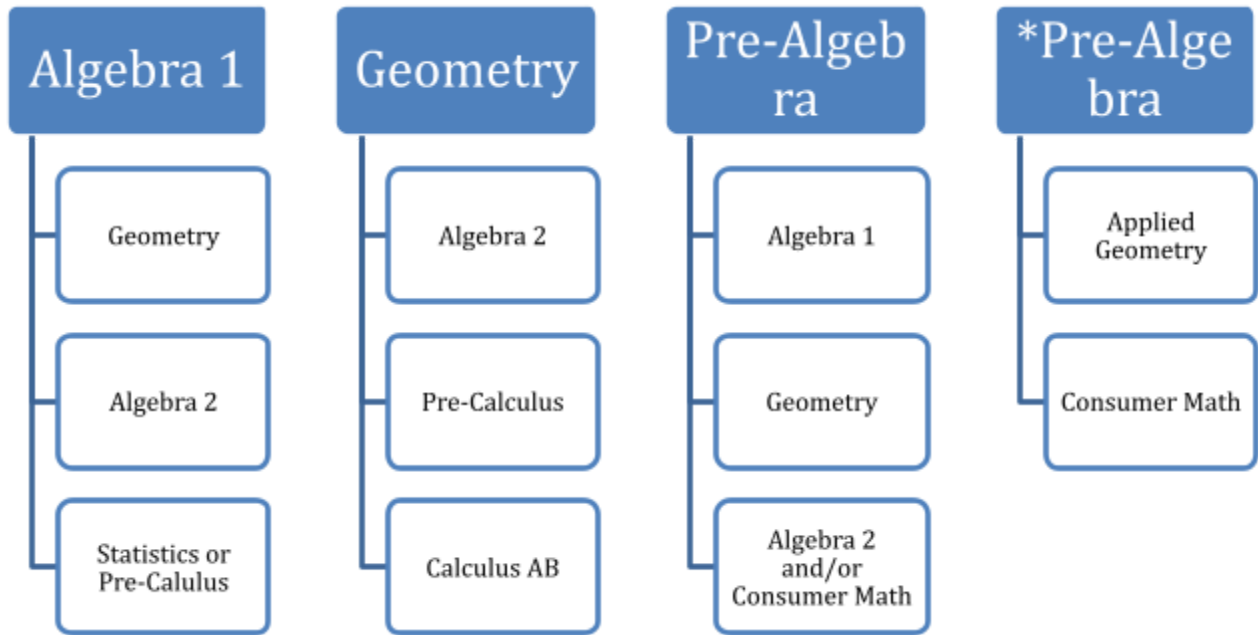


**Science** sequences are based on Science grades in 8<sup>th</sup> grade and state testing results. Students begin with Physical Science and Biology. Colleges each have specific entrance requirements for upper-level classes. Check with your school counselor.



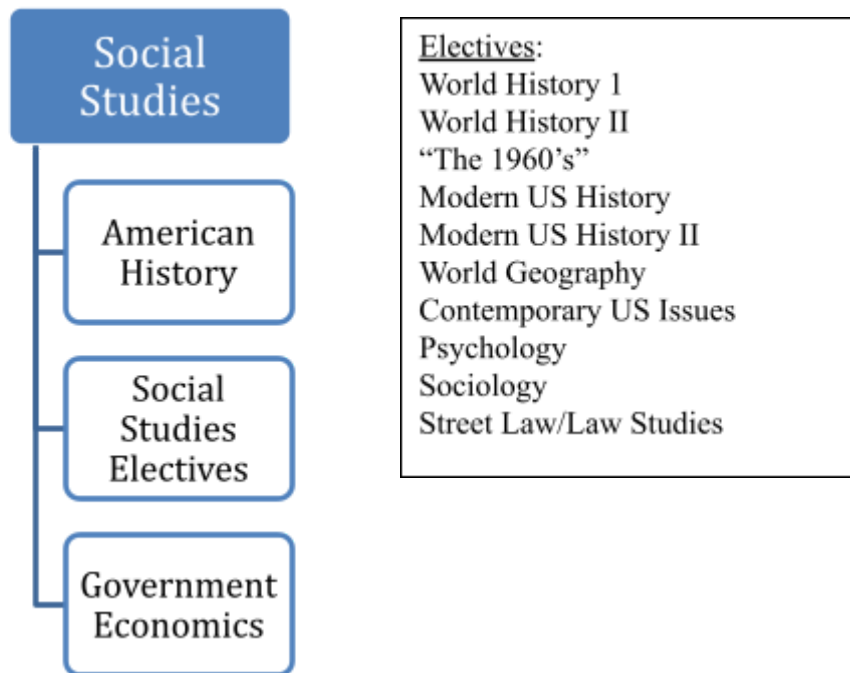
\*This is an advanced sequence intended for students in an accelerated math track.

**Math** sequences are based on math placement scores from students' math tests in 8<sup>th</sup> grade, math grades, and state testing results. Most students begin with Algebra I, Geometry, or Pre-Algebra.



\* This sequence is only intended for non-4 year college bound students.

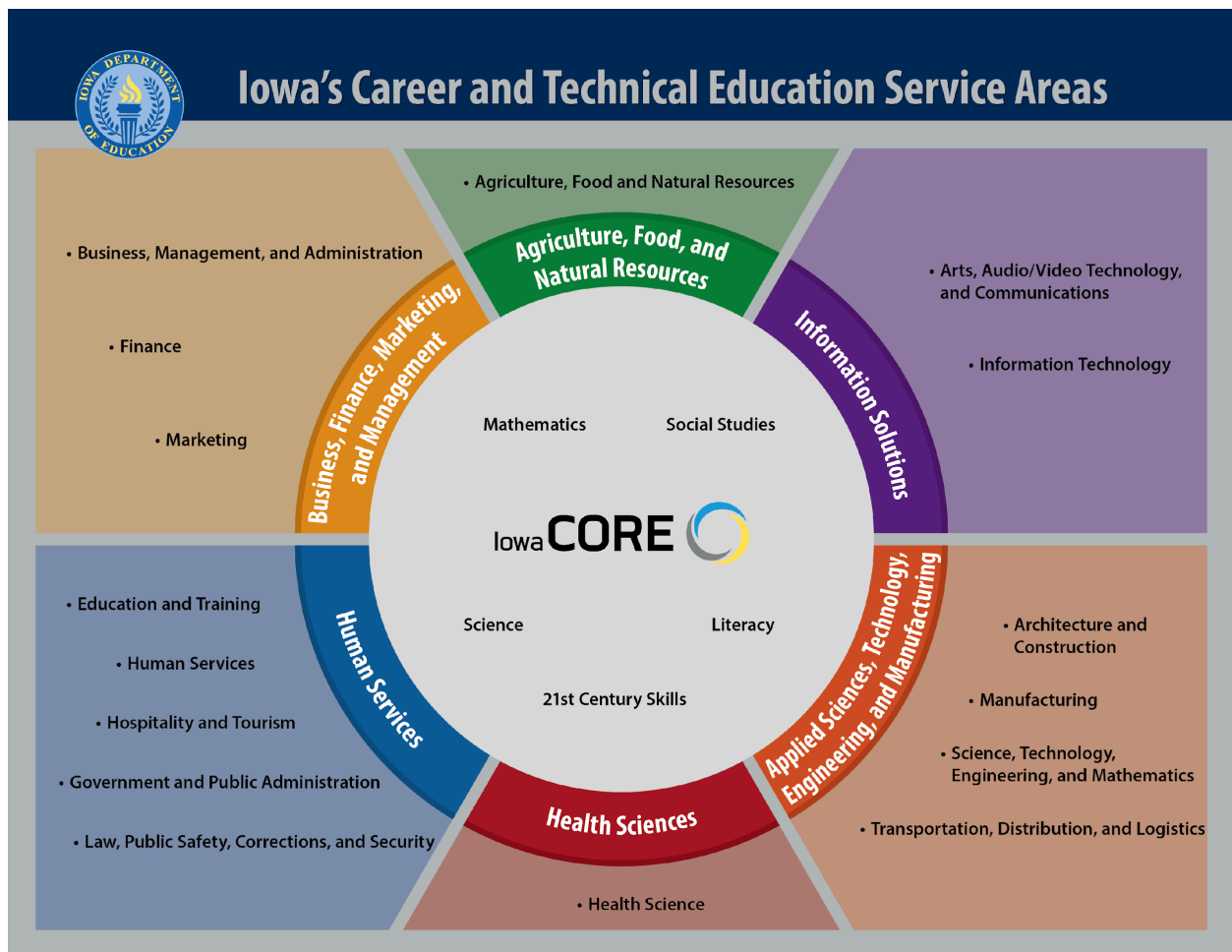
**Social Studies** sequences are based on social studies grades in 8<sup>th</sup> grade and state testing results. The classes offered are based on federal guidelines for classes to be offered and taught.



# Career Pathways

The Career Cluster Framework is built on a set of progressively specific knowledge and skills. At the center are foundation knowledge and skills common to all Career Pathways/Fields and career clusters. The first ring contains the six Iowa Career Pathways, which are divided into the 16 career clusters (second ring), which can be further divided into numerous career specialties.

The following tables are provided as a guide to help you in your course selection and planning.



## **Agri-science, Food and Natural Resources Pathway**

Are you a nature lover? Are you practical, curious about the physical world, and interested in plants and animals? Do you like to be physically active? Do you like to observe, learn, investigate, or solve problems? This may be a career pathway for you!

## **Business, Finance, Management & Marketing Pathway**

Are you organized, accurate, and self-motivated? Are you able to write and speak well to communicate ideas to others? Do you enjoy being a leader, organizing people, planning events, and working with numbers or ideas? Do you like operating computers or other business machines? This may be a career pathway for you!

## **Applied Sciences, Technology, Engineering and Manufacturing Pathway**

Are you able to analyze problems and to understand and pay close attention to standards? Are you good at math and science? Do you like to create, build, install, and maintain physical systems? Do you enjoy drawing detailed plans or patterns or working with diagrams? This may be a career pathway for you!

## **Human Services – Family Consumer Pathway**

Are you able to be flexible and adapt quickly, and to make quality judgments under stressful situations? Do you like working with diverse groups of people and serving the public? Do you possess emotional stability and strong self-esteem? This may be a career pathway for you!

## **Health Sciences Pathway**

Are you interested in your own health and wellness? Are you able to remain calm in a crisis? Do you have an interest in working with people who are injured or sick, promoting wellness, and sharing knowledge with others? This may be a career pathway for you!

## **Information Technology Pathway**

Are you good with math and puzzles? Do you want to work with computers? Do you have good problem-solving skills? Do you like learning about new technology? This may be a career pathway for you!

# Lisbon High School Career Pathway Planner:

## Pathway: Agri-science, Food and Natural Resources

Possible Careers Related to Agri-science and Natural Resources: Precision Farm Consultant, GPS Field Data Collector, Ag GPS/GIS Sales, Ag GIS Analyst, GIS Technician, Veterinarian, Forestry, Fish Hatchery, Game Warden, Botanist, Agronomist					
Subject	9th	10th	11th	12th	Grad. Req.
English	English 1	English 2	English Comp / American Lit. English Comp / Contemp. Lit. Creative Writing Speech Film as Lit.	Comp 1 / Comp 2 AP English Lit & Comp. Speech / Contemporary Lit. Creative Writing Film as Lit.	8 credits
Math	Algebra 1 Geometry	Geometry Algebra 2	Algebra 2 Pre-Calculus	Prob/Stats Calculus	6 credits
Science	Physical Science	Biology	Chemistry	Science Elective	6 credits
Social Studies	Social Studies Electives	American History	Social Studies Electives	Government / Economics	6 credits
Foreign Lang.	Spanish 1	Spanish 2	Spanish 3	Spanish 4	
Electives		Entrepreneurship	Career Readiness		
Career Pathway	Ask about Ag options at Springville				
Related Activities	Career Fair ICAP Guideway Volunteer Activities	ICAP Guideway ACT Plan Test Career Fair	ICAP Guideway Job Shadow College Visits/Fair ACT/SAT Tests Career Speakers	ICAP Guideway Job Shadow Internships College Visits/Fair	

# Lisbon High School Career Pathway Planner:

## Pathway: Business, Finance, Management & Marketing

Possible Careers Related to Business, Information Management & Marketing: Network Technician or Administrator, PC Support Technician, Security Administrator, Database Developer, Computer Programmer, Web Designer, Digital Media Developer, Graphic Designer, GIS Technician

Subject	9th	10th	11th	12th	Grad. Req.
English	English 1	English 2	English Comp / American Lit. English Comp / Contemp. Lit. Creative Writing Speech Film as Lit.	Comp 1 / Comp 2 AP English Lit & Comp. Fund. of Oral Comm. Contemporary Lit. Creative Writing Film as Lit.	8 credits
Math	Algebra 1 Geometry	Geometry Algebra 2	Algebra 2 Pre-Calculus	Prob/Stats Calculus	6 credits
Science	Physical Science	Biology	Chemistry	Science Elective	6 credits
Social Studies	Social Studies Electives	American History	Social Studies Electives	Government / Economics	6 credits
Foreign Lang.	Spanish 1	Spanish 2	Spanish 3	Spanish 4	
Electives	Entrepreneurship	Accounting 1 Accounting 2.	Career Readiness Computer Apps	Lisbon Inc.	
Career Pathway				Business or Graphics Academy	
Related Activities	Career Fair ICAP Guideway Volunteer Activities	ICAP Guideway ACT Plan Test Career Fair	ICAP Guideway Job Shadow College Visits/Fair ACT/SAT Tests Career Speakers	ICAP Guideway Job Shadow Internships College Visits/Fair	

# Lisbon High School Career Pathway Planner:

## Pathway: Applied Sciences, Technology, Engineering and Manufacturing

Possible Careers Related to Engineering, Industrial, and Technology Services: Auto Collision Repairer, Automotive Technician, Electronic Test Technician, Insurance Adjuster, Machinist, Manufacturer, Welder, Mechanical Maintenance Technician, Diesel Technician, Engineer					
Subject	9th	10th	11th	12th	Grad. Req.
English	English 1	English 2	English Comp / American Lit. English Comp / Contemp. Lit. Creative Writing Speech Film as Lit.	Comp 1 / Comp 2 AP English Lit & Comp. Fund of Oral Comm. Contemporary Lit. Creative Writing Film as Lit.	8 credits
Math	Algebra 1 Geometry	Geometry Algebra 2	Algebra 2 Pre-Calculus Statistics	Pre-Calculus Calculus Statistics	6 credits
Science	Physical Science	Biology	Chemistry	Science Elective	6 credits
Social Studies	Social Studies Electives	American History	Social Studies Electives	Government / Economics	6 credits
Foreign Lang.	Spanish 1	Spanish 2	Spanish 3	Spanish 4	
Electives			Career Readiness		
Career Pathway	Introduction to Architecture, Construction, and Engineering, Construction Materials Processing, Intro to Engineering Design	Introduction to Architecture, Construction, and Engineering, Construction Materials Processing, Intro to Engineering Design, Computer Aided Drafting, Construction Technology	Introduction to Architecture, Construction, and Engineering, Construction Materials Processing, Intro to Engineering Design, Computer Aided Drafting, Construction Technology	Introduction to Architecture, Construction, and Engineering, Construction Materials Processing, Intro to Engineering Design, Computer Aided Drafting, Construction Technology, KCC Academies	
Related Activities	Career Fair ICAP Guideway Volunteer Activities	ICAP Guideway ACT Plan Test Career Fair	ICAP Guideway Job Shadow College Visits/Fair ACT/SAT Tests Career Speakers	ICAP Guideway Job Shadow Internships College Visits/Fair	



# Lisbon High School Career Pathway Planner:

## Pathway: Human Services – Family Consumer

Possible Careers Related to Family, Consumer & Human Services: Preschool Teacher, Social Worker, Elementary or Secondary Education Teacher, Career & Transition Counselor, Counselor, Paraeducator, Rehabilitation Supervisor, Teacher, Special Needs Educator, Child care assistant, Job Coach, Child Care Director, Substance Abuse Counselor, Adoption Specialist, Principal, College professor, Group home worker, Domestic Violence Advocate, Child Welfare Advocate, Chef

Subject	9th	10th	11th	12th	Grad. Req.
English	English 1	English 2	English Comp / American Lit. English Comp / Contemp. Lit. Creative Writing Speech Film as Lit.	Comp 1 / Comp 2 AP English Lit & Comp. Fund. of Oral Comm. Contemporary Lit. Creative Writing Film as Lit.	8 credits
Math	Algebra 1 Geometry	Geometry Algebra 2	Algebra 2 Pre-Calculus	Pre-Calculus Calculus	6 credits
Science	Physical Science	Biology	Chemistry	Science Elective	6 credits
Social Studies	Social Studies Electives	American History	Psychology Sociology	Government / Economics	6 credits
Foreign Lang.	Spanish 1	Spanish 2	Spanish 3	Spanish 4	
Electives			Career Readiness		
Career Pathway				Human Services Academy Culinary Academy	
Related Activities	Career Fair ICAP Guideway Volunteer Activities	ICAP Guideway ACT Plan Test Career Fair	ICAP Guideway Job Shadow College Visits/Fair ACT/SAT Tests Career Speakers	ICAP Guideway Job Shadow Internships College Visits/Fair	

# Lisbon High School Career Pathway Planner:

## Pathway: Health Sciences

Possible Careers Related to Health Sciences: Dental Assistant, Dental Hygienist, Dental Technician, Health Information Technologist, Medical Transcriptionist, Medical Coder, Electro Neurodiagnostic Technologist, Medical Assistant, Practical Nurse, Registered Nurse, Occupational Therapy Assistant, Physical Therapist Assistant, Paramedic Specialist, Respiratory Therapist, Surgical Technologist, Radiologic Technologist

Subject	9th	10th	11th	12th	Grad. Req.
English	English 1	English 2	English Comp / American Lit. English Comp / Contemp. Lit. Creative Writing Speech Film as Lit.	Comp 1 / Comp 2 AP English Lit & Comp. Fund. of Oral Comm. Contemporary Lit. Creative Writing Film as Lit.	8 credits
Math	Algebra 1 Geometry	Geometry Algebra 2	Algebra 2 Pre-Calculus	Pre-Calculus Calculus	6 credits
Science	Physical Science	Biology	Chemistry	Anatomy & Physiology	6 credits
Social Studies	Social Studies Electives	American History	Psychology Sociology	Government / Economics	6 credits
Foreign Lang.	Spanish 1	Spanish 2	Spanish 3	Spanish 4	
Electives			Career Readiness		
Career Pathway				Health Sciences Academy EMT Academy Dental Academy	
Related Activities	Career Fair ICAP Guideway Volunteer Activities	ICAP Guideway ACT Plan Test Career Fair	ICAP Guideway Job Shadow College Visits/Fair ACT/SAT Tests Career Speakers	ICAP Guideway Job Shadow Internships College Visits/Fair	

# Lisbon High School Career Pathway Planner:

## Pathway: Information Technology

Possible Careers Related to Information Technology: Cloud Computing Engineer, Computer Network Specialists, Computer Support Specialist, Database Administrator, Information Technology Analyst, Information Technology Leadership, Security Specialist, Software Developer, Web Developer.

Subject	9th	10th	11th	12th	Grad. Req.
English	English 1	English 2	English Comp / American Lit. English Comp / Contemp. Lit. Creative Writing Speech Film as Lit.	Comp 1 / Comp 2 AP English Lit & Comp. Speech / Contemporary Lit. Creative Writing Film as Lit.	8 credits
Math	Algebra 1 Geometry	Geometry Algebra 2	Algebra 2 Pre-Calculus	Prob/Stats Calculus	6 credits
Science	Physical Science	Biology	Chemistry	Science Elective	6 credits
Social Studies	Social Studies Electives	American History	Social Studies Electives	Government / Economics	6 credits
Foreign Lang.	Spanish 1	Spanish 2	Spanish 3	Spanish 4	
Electives		Entrepreneurship	Career Readiness		
Career Pathway	Drawing Design Painting	3-D Design	Ceramics Photography	Graphics and Media Academy	
Related Activities	Career Fair ICAP Guideway Volunteer Activities	ICAP Guideway ACT Plan Test Career Fair	ICAP Guideway Job Shadow College Visits/Fair ACT/SAT Tests Career Speakers	ICAP Guideway Job Shadow Internships College Visits/Fair	

# ART

## **Intro to Art Studio**

Length of Class: 1 Semester

Prerequisite: None

Course Description: This is an introductory course that serves as a *prerequisite to Art Studio*. Students are encouraged to use a variety of materials and cover a range of subjects. While technical artistic skills are taught and practiced, emphasis is put on problem-solving, exploring, and developing artistic habits. Students will create and maintain a digital portfolio of work.

## **Art Studio**

Length of Class: 1 Semester

Prerequisite: Intro to Art Studio

Course Description: This course is open to anyone who has taken Intro to Art Studio. This course focuses on communicating through art. We will discuss and practice showing meaning through art, analyzing images, and the significance of themes in the visual arts. Students will continue to add to their digital portfolio of work.

## **Photography & Design**

Length of Class: 1 Semester

Prerequisite: None

Course Description: This course is open to any high school student. This course focuses on skill development related to photography and graphic design. Photography & Design includes but is not limited to digital photography, photo editing, graphic design, animation, video production, etc.

## **Independent Art Studio**

Length of Class: 1 Semester

Prerequisite: After completing at least 2 of the Art Studio classes.

Course Description: This course is open to anyone who has taken 2 or more Art Studio classes and needs flexibility in their schedule. This course requires a high degree of independence and self-motivation. Students will set and work towards personal artistic goals. In addition to independent artmaking where they develop their personal style, students will maintain a digital portfolio of work.

# AGRICULTURE, FOOD, AND NATURAL RESOURCES EDUCATION

The agriculture, food, and natural resources cluster of classes is designed to prepare students for college, technical training, apprenticeships and careers requiring high achievement in science, math and communication. This diverse cluster of classes prepares learners for careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services, including food, fiber, wood products, natural resources, and other plant and animal products. It also includes related professional, technical, and educational

services. Students interested in this field can work in agribusiness, ag science, fisheries, forestry, horticulture, and wildlife, including becoming a veterinarian or veterinary technician.

### **Introduction to Agriculture Science I**

Length of Class: 1 Semester

Prerequisites: none

Course Description: This is an introductory course to agriculture, food, and natural resources. We look at multiple topics related to agriculture and leadership. You will experience hands-on activities, projects, and problems. Topics include the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. Along with the classroom work, students will be encouraged to join and be involved in the FFA. Each student will have the opportunity to work on individual leadership skills and personal development. Students will also be encouraged to have a Supervised Agricultural Experience (SAE). All students involved in agriculture education classes will be expected to have a project designed to help them learn business skills, record keeping, and involve hands-on experiences.

### **Introduction to Agriculture Science II**

Length of Class: 1 Semester

Prerequisites: Intro to Ag Science I

Course Description: This course is a continuation of Introduction to Agriculture Science I.

### **Introduction to Animal Science I**

Length of Class: 1 Semester

Prerequisites: Intro to Ag Science I and II preferred, or Instructor Approval

Course Description: Introduction to Animal Science is a course that imparts information about the care and management of domestic and farm animals. This course covers animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing and marketing. Students will study a particular species, for example, swine, cattle, horses, fowl, sheep and so on, or they may learn how to care for and maintain livestock as a more inclusive study.

### **Introduction to Animal Science II**

Length of Class: 1 Semester

Prerequisites: Intro to Animal Science I preferred, or Instructor Approval

Course Description: This a continuation of Animal Science I.

### **Veterinary Science**

Length of Class: 1 Semester

Prerequisites: Intro to Animal Science I or II

Course Description: This course will develop students' understanding of the small, companion and farm animal industry, animal anatomy and physiology, animal nutrition, animal reproduction, animal ethics, and welfare issues, animal health, veterinary medicine, veterinary office practices,

and animal services to humans. Career exploration will focus on veterinarians, veterinary lab technicians, office lab assistants, small animal production, research lab assistants, and animal nutrition lab technicians. Offered alternating years.

### **Food Science and Safety**

Length of Class: 1 Semester

Prerequisites: Intro to Animal Science I or II

Course Description: Students will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills. Students will investigate areas of food science including food safety, food chemistry, food processing, food product development, and marketing. Students will maintain a research-level laboratory notebook throughout the class documenting their experiences in a laboratory. Research and experimental design will be highlighted as students develop and conduct industry appropriate investigations. Offered alternating years.

### **Agribusiness Management**

Length of Class: 1 Semester

Prerequisites: Intro to Ag Science I and II preferred, or Instructor Approval

Course Description: Introduction to Agribusiness provides students with the information and skills necessary for success in agribusiness and in operating entrepreneurial ventures in the agricultural industry. This course may cover topics such as economic principles, budgeting, risk management, finance, business law, marketing and promotion strategies, insurance, and resource management. Other possible topics include developing a business plan, employee/employer relations, problem-solving and decision making, commodities, and building leadership skills. This course will also incorporate a survey of the careers within the agricultural industry. Offered alternating years.

### **Plant Science**

Length of Class: 1 Semester

Prerequisites: Intro to Ag Science I and II preferred

Course Description: In this one semester course, students will explore the fastest growing field in the agricultural industry. Students will be introduced to the various types of greenhouses. Students learn how to produce and culture plants in a temperature-controlled environment and examine variables like humidity, light and nutrients. This course will also provide an overview of growing different types of plants, producing food in a water environment to meet the needs of today's increasing population. The hydroponics area includes growing various fruits and vegetables without the use of soil. Students will learn how to address issues such as using less space for food production, water management, including testing for water quality, dissolved oxygen, pH, and ammonia. Students will also receive an introduction to landscape design and agronomy. Offered alternating years.

# APPLIED SCIENCES, TECHNOLOGY, ENGINEERING, AND MANUFACTURING

A background in Applied Sciences, Technology, Engineering, and Manufacturing allows students to pursue opportunities in many fields of construction, such as carpentry, masonry, roofing, plumbing, and electricity. Applied Sciences, Technology, Engineering, and Manufacturing courses also provide the necessary background for students interested in drafting and architecture, and various types of engineering, such as civil, mechanical, and materials. These courses concentrate primarily on the ACE (Architecture, Construction and Engineering) career paths. All these courses include a component for career exploration and investigation.

## **Introduction to Architecture, Construction, and Engineering Technologies**

Length of Class: 1 Semester

Prerequisites: none

Course Description: This course is designed to give students a basic introduction and overview to the topics available in the applied sciences of technology, engineering, and manufacturing. It will cover a wide range of study of the following areas: Manufacturing, Energy and Power, Architecture/Construction, and Transportation. Most units will include safety, hands-on work, and in some areas a project. The curriculum is designed around exploration of these systems, their impacts on society, and potential careers in each segment. Students will develop problem-solving skills, utilize research and investigation skills, and explore career awareness. Assessments are completed in class and are based on quality of work completed, employability skills, and other items as determined by the instructor.

## **Architectural Plans and Specs**

Length of Class: 1 Semester

Prerequisites: Grades 11-12

1 HS Credit, 3 College Credits

Course Description: This semester course introduces the skills and methods for understanding and interpreting construction drawings and technical specifications for residential and commercial buildings. This course is offered at Lisbon Secondary for Kirkwood Community College credit.

## **Construction Materials Processing**

Length of Class: 1 Semester

Prerequisite: Intro to ACE or instructor approval; Grades 9-12

Course Description: This is a one-semester foundational course for the architecture and construction cluster. Students will learn concepts in residential construction materials and building techniques through classroom investigations. Concepts include job site safety, lumber, foundations, rough framing roofing, interiors, and other topics within the construction cluster.

Students will experience plan development, plan reading and creating project drawings, tool identification and safe usage, material identification, cost estimation, and production. Students will receive instruction in hand and power tool usage on applicable projects that utilize the knowledge gained from classroom investigations as they continue developing team-building skills by working collaboratively. Assessments are completed in class and are based on the quality of work completed, employability skills, and other items as determined by the instructor.

### **Construction Technologies**

Length of Class: 1 Semester (repeatable one time with instructor permission)

Prerequisites: Construction Materials Processing (Grades 10-12)

Course Description: Students will work to develop core residential construction skills. Safe operation of relevant hand and stationary power equipment is covered. Current residential construction materials, methods, and terminology are covered in classroom work and discussion, hands-on lab activities, and the building of small structures. This class focuses on general knowledge in a broad range of building systems and the coordination requirements between those systems. All students are expected to be self-motivated, pay attention to detail, and have a desire to produce quality products

### **Introduction to Welding**

Length of Class: 1 Semester

Prerequisites: none

Course Description: Provides an introduction to welding and the associated professions. Includes basic safety and health within the welding profession, orientation to various machines and equipment, and introductory welds and manufacturing processes.

### **Advanced Welding**

Length of Class: 1 Semester

Prerequisites: Introduction to Welding

Course Description: Introduces hands-on fabrication basics used by welding industries. Covers layout, reading blueprints, applied math, cost estimation, jigs and fixtures, and introduction to shearing, bending, drilling, sawing and other manufacturing processes associated with welding fabrication.

### **Computer Aided Drafting**

Length of Class: 1 Semester

Prerequisites: none

Course Description: Students in this class will develop knowledge and skills to communicate graphically with engineers, architects, CNC operators, machinists, builders, and other production workers. Emphasis will be placed on drafting vocabulary and processes. Coursework will include class discussion and lessons from written sources, but will focus on production of workable CAD drawings for a variety of production applications. Instruction and projects will progress from simple drawings to complex 3D modeling and architectural drawings using Autodesk CAD,



Autodesk Inventor, and Autodesk Revit. By the end of this class students should be able to produce drawings detailed and accurate enough to guide actual production.

### **PLTW: Intro to Engineering Design**

Length of Class: Year long

Prerequisites: Algebra 1 or currently enrolled in Algebra 1 (Grades 9-12)

Course Description: This course introduces students to a variety of careers in engineering and technology. Students will study technology systems and manufacturing processes. Students will experience how engineers and technicians use math, science, and technology within an engineering problem-solving process. Students will use state-of-art design software to apply learned skills to real world engineering and manufacturing problems.

### **Consumer Home Maintenance**

Length of Class: 1 Semester

Prerequisite: none

Course Description: This is a one semester course within the ACE cluster to help students gain knowledge and comfort with basic household repairs and life skills. Students will learn concepts in residential home maintenance through classroom investigations. Concepts include: understanding types and use of basic tools and power equipment, learning about home repair life skills, simple maintenance and replacement of electrical and plumbing fixtures, identifying various home improvement store offerings, and other topics as necessary. Students will experience tool identification and safe usage, material identification, and basic troubleshooting skills. Students will complete classroom investigations as they continue developing their life skill sets. Assessments are completed in class and are based on quality of work completed and other items as determined by the instructor.

## **BUSINESS EDUCATION/COMPUTER**

### **Intro to Business**

Length of Class: 1 Semester

Course Description: This course provides opportunities to learn and experience a variety of topics in the field of business. Students are exposed to various economies, their roles in our economy, entrepreneurship, marketing, managing financial and technological resources, and the use of social media in the business world.

### **Kirkwood Introduction to Business (BUS:102)**

Length of Class: 1 Semester

Prerequisite: Kirkwood application is required for this course.

Course Description: Focuses on American and global business and introduces the student to each primary facet of operating a business. This course will help the student understand economic, social and political influences that affect business success. Students will earn 1 high school elective credit and 3 college credit hours.

## **Entrepreneurship**

Length of Class: 1 Semester

Course Description: What does it take to start a business? Why do some succeed while others fail within the first year? How do I know if owning a business is in my future? Is starting your own business a smart move? This course helps students to develop an understanding of small business ownership by discovering what it takes to start and run a successful business. Topics covered include creative thinking, forms of business ownership, marketing, and management. Students learn by researching a business idea and creating a basic business plan for a small business. Join us...are you up for the challenge?

## **Career Readiness**

Length of Class: 1 Semester – **Required**

Course Description: What are your plans when you graduate from Lisbon High School? What kind of careers are you thinking about? Do you know what's involved when applying for college scholarships? Have you brushed up on your interviewing skills lately? Whether you are confident about which career path is for you, or you are still trying to decide, this course delves into navigating life after high school. From learning how to apply for scholarships and colleges, to creating resumes and cover letters, students will learn vital skills for the future. Students will learn business communications skills such as job hunting and interviewing skills, resumes, cover letters, public speaking, etc. Career Readiness is geared to get you ready for the journey after high school.

## **Accounting I**

Length of Class: 1 Semester

Course Description: This course is designed to introduce students to accounting and the proper practices used in that field. Students will cover accounting procedures for a sole proprietorship and a merchandising corporation. Students will complete assignments using both manual accounting methods and computerized accounting methods. Students will complete real-world business simulations using automated accounting software.

## **Accounting II/III**

Length of Class: 1 Semester

Prerequisite: Accounting I

Course Description: This course is a continuation of Accounting I. Students will continue covering accounting procedures for a merchandising corporation using both manual and computerized accounting procedures. Students will complete real-world business simulations using automated accounting software.

## **Computer Business Applications**

Length of Class: 1 Semester

Course Description: This course focuses on software used in businesses around the world. Students will learn of the power behind the Microsoft Office software - word processing, spreadsheets, presentation, and database software. We will also look at new and emerging technologies, file management, virtual communication, programming languages, and many other topics related to technology.

## **Lisbon INC**

Length of Class: 1 Semester (Students must schedule a meeting with the instructor before admittance into Lisbon INC.)

Prerequisite: Entrepreneurship

Course Description: Have you ever been bored in class? Have you wondered what school would be like if you were able to learn about and select projects of your choice? Lisbon INC might be your answer. Lisbon INC is a project-based business class where the projects you work on are based on your interests and passions. Students gain experience in every aspect of the projects – from communicating with area business people, and project planning and implementation, to networking and solving problems. Ideally, you should plan a two-hour block of time in your schedule to allow for business meetings and field trips.

### **On the Job Training Program (OJT)**

Length of Class: 1 Semester

Prerequisite: Career Readiness (Course can be repeated with instructor approval)

Course Description: Lisbon On the Job Training (OJT) Program provides students with multiple periods of work related to their future education or career goals. Students work with pay at one of the local businesses for 10 to 15 hours per week. Work experiences are secured by the student through the usual job interview process with the help and consent of the coordinator. Students will set goals with their coordinator and employer in order to gain valuable skills.

### **Publications: Yearbook**

Length of Class: 2 Semesters

Prerequisites: English 1, Photography, or Instructor Permission

Course Description: Do you enjoy taking photos? Do you excel at talking to people and telling stories? Do you love graphic design and photo editing? Lisbon High School's Publications class is a fast-paced course responsible for photojournalism coverage throughout the school year and the marketing and promotions of the award-winning yearbook. This course is for serious students who are interested in using their creativity on multiple levels. As students dive into photographing and documenting life at Lisbon, they learn the significance of creating a product that is actually packaged and sold to the Lisbon Community. Working as a team, students will plan and execute sponsorship sales, photograph events/activities relevant to the Lisbon High School student population and create pages that tell the story of our year. Software used includes word processing, spreadsheets, photo editing, and Josten's Yearbook Avenue software (YBA instruction ONLY in the first semester).

## **ENGLISH**

### **English I**

Length of Class: 2 Semesters

Course Description: This class, to be taken freshman year, provides the fundamental communication skills needed for the rest of high school. Reading, writing, and presenting are all a part of this class. We read some contemporary and classic literature as well as short stories. The class also does several research projects throughout the year, as well as a variety of other activities.

### **English II**

Length of Class: 2 Semesters

Prerequisites: English I

Course Description: English II is a requirement to fulfill English credits. Students expand upon their basic knowledge of a wide range of genres (poetry, drama, short story, novel, etc.) and upon their communication skills through literary analysis as well as through expository and creative writing assignments and projects. Students enhance organizational, research, and writing skills by completing major, long-term projects.

### **English Composition**

Length of Class: 1 Semester (Fall)

Prerequisites: English II

Course Description: Develops expository writing with emphasis on organization, supporting details, style, vocabulary, and research skills. Three major writing assignments will include an informative essay, a narrative essay, and an argumentative essay.

### **Creative Writing**

Length of Class: 1 Semester (Fall)

Prerequisites: English II

Course Description: Students will experiment with different types of writing (fiction, non-fiction, poetry, and screenplays.) in addition to learning how to be a careful critic of their own and others writing. This is a hands-on and expressive class.

### **Oral Communications**

Length of Class: 1 Semester (Offered Fall and/or Spring)

Prerequisites: English I

Course Description: Its purpose is to acquaint students with the fundamentals of effective oral communication, to provide students with opportunities to practice speaking, and to help students develop confidence in their ability to speak effectively.

### **American Literature**

Length of Class: 1 Semester (Spring)

Prerequisites: English II

Course Description: American Literature gives the student a comprehensive understanding of American literary movements through the study of American literature, in addition to thematic units throughout the year. Students read essays, poetry, short stories, and novels by major American authors. In addition to an intense reading schedule and tests, students are assigned several projects and papers requiring literary analysis. All activities are designed to develop thinking and communication skills.

### **Contemporary Literature**

Length of Class: 1 Semester (Spring)

Prerequisites: English II

Course Description: Contemporary Literature introduces students to some of the best new literature for young adults. Students read a variety of novels and genres. Students are expected to discuss (in writing and in person), debate, and prepare presentations.

### **Film as Literature**

Length of Class: 1 Semester

Prerequisites: English II

Course Description: One definition of literature is “the stories in which we see ourselves reflected and find meaning in that reflection.” Film has become this literature for most Americans. This course introduces students to the basics of film analysis, cinematic formal elements, genre, and narrative structure and helps students develop the skills to recognize, analyze, describe, and enjoy film as an art and entertainment form. To understand how films are constructed to make meaning and engage audiences, students will be introduced to the basic “building blocks” and formal elements (narrative, mise-en-scene, cinematography, sound and editing) that make up the film as well as some fundamental principles of analysis, genre, style, performance, and storytelling. The class includes weekly readings, screenings, and short writing assignments.

## **AP English Literature and Composition**

Length of Class: 2 Semesters

Prerequisites: American Literature and English Comp or equiv., or Teacher recommendation

Course Description: AP English Literature is a class designed around the study of genre. This survey course covers poetry (American and British), Drama (Classical, Shakespearean, and Modern), short stories (American and British), and novels including *Catcher in the Rye*, *Scarlet Letter*, and *One Flew Over the Cuckoo’s Nest*. Throughout the year, students will prepare for the AP exam in the spring with frequent in-class essays.

## **Composition 1 and 2 (KCC)**

Length of Class: Each course is 1 Semester (Concurrent Enrollment with Kirkwood)

Prerequisites: Cumulative GPA of 2.8 or higher and be proficient on Iowa Assessment tests.

Course Description: Develops expository writing with emphasis on organization, supporting details, style, vocabulary, and library research skills. Teaches precise and responsible use of research tools. Requires critical analysis of reading materials, audience, and self when communicating content material. Develops students' ability to use effective and ethical arguments. Kirkwood level core English classes. Students earn credit for both high school and college English.

## **English Electives: Does not count for college admissions**

### **Reading Fundamentals Lab**

Length of Class: 1 Semester

Prerequisites: Recommendation/approval from the instructor and the high school counselor. Should be taken in addition to English I during Freshman year.

Course Description: Designed for students who seek to improve reading comprehension and fluency, this is a one-semester course in which students read novels, analyze news stories, practice vocabulary, and read scripts aloud for fluency. Creative activities based around these novels are typical assignments for this class. Writing is also a common practice with several book reviews and journaling assigned throughout the year.

### **Writing for Media**

Length of Class: 1 Semester

Prerequisites: English I

Course Description: This class is designed for students interested in sampling all types of media: newspaper, magazines, advertising, social media, film, TV news, and blogging. Students will write, edit, and analyze articles and web content that explore each of these types of media.

Students work in groups and independently while working on all types of media.

## FOREIGN LANGUAGE

### **Spanish I**

Length of Class: 2 Semesters

Course Description: The Spanish language is presented and cultivated through listening, speaking, reading, and writing skills. The student is introduced to basic vocabulary and grammar structures of the language; thus enabling the student to speak and write in simple sentences about themselves and others. Class activities stress finding meaningful and practical applications of Spanish in their lives. Students will study cultural diversity and work on developing a non-judgmental approach to cultures other than our own. Students are informed of and encouraged to attend cultural events outside of class. A passing grade must be earned during the first semester in order to progress to the second semester of Spanish 1.

### **Spanish II**

Length of Class: 2 Semesters

Prerequisites: C+ or better grade at the end of 2<sup>nd</sup> semester of the previous year

Course Description: Grammar patterns are studied in greater depth. Students are expected to speak and read more Spanish. The students participate in various exercises to increase their oral and written skills in the language. Culture is studied to heighten the student's awareness of issues facing Hispanic countries. Students are informed and encouraged to attend cultural events outside of class. By the end of the second year, the student should be able to narrate actions in the present and simple past tense.

### **Spanish III**

Length of Class: 2 Semesters

Prerequisites: C+ or better grade at the end of 2<sup>nd</sup> semester of the previous year

Course Description: Emphasis is placed on broadening the student's listening, reading, writing, and speaking skills. Students are expected to use the Spanish language every day in class. The student is introduced to more tenses in the Spanish language. The student is required to give speeches using these various tenses. Culture is discussed through the readings of authentic materials in the target language (newspapers, magazines, short stories, and poetry).

### **Spanish IV**

Length of Class: 2 Semesters

Prerequisites: C+ or better grade at the end of 2<sup>nd</sup> semester of the previous year

Course Description: The fine tuning of the student's listening, speaking, reading and writing skills is the goal of Spanish 4. Students will be expected to speak Spanish almost exclusively in class every day and to give oral presentations in Spanish. The skill of circumlocution is practiced to aid in the student's speaking ability. Written work will be emphasized through a variety of literary projects requiring creativity, problem-solving, expressing opinions. Students will study additional topics in advanced grammar, as well as Hispanic literature and history. By the completion of Spanish 4, the student should have learned to comprehend, speak, read and write the basics of the Spanish language.

# HEALTH

**1 Class required for graduation. Students must also be current in CPR.**

## **Health S1**

Length of Class: 1 Semester

Course Description: Health instruction includes units on understanding health and wellness, taking charge of your health, achieving mental and emotional health, managing stress and coping with loss, mental and emotional problems, skills for healthy relationships, peer relationships, resolving conflicts and preventing violence, nutrition for health, managing weight and eating behaviors.

## **Health S2**

Length of Class: 1 Semester

Course Description: Health instruction includes units on physical activity and fitness, personal health care, body systems, family relationships, beginning of the life cycle, how the life cycle continues, tobacco, alcohol, illegal drugs, communicable diseases, sexually transmitted diseases and HIV/AIDS, and non-communicable diseases and disabilities.

# MATH

## **Algebra I**

Length of Class: 2 Semesters

Prerequisites: Must have an Algebra Aptitude Test score (from 8th grade) that is recognized as leading to success in Algebra. This course is available to middle school students if they have excelled in math in the past.

Course Description: Algebra is designed to help organize your thoughts to solve mathematical problems in everyday life and prepares you to continue your math studies. Students work with negative numbers, order of operations, and solve application problems using variables. Students are introduced to solving equations with variables, factoring polynomials, graphing lines, writing equations for lines, applying functions, and using inequalities to deal with variables.

## **Geometry**

Length of Class: 2 Semesters

Prerequisites: Algebra 1

Course Description: Geometry will be studied in two ways 1) It is the study of size, shape, position and other properties of objects around us. 2) It is the mathematical system in which a few basic statements or ideas are agreed to and then used to decipher results by logical reasoning. Students deal with properties of angles, triangles, parallel lines, and polygons. First semester deals with proofs and promotes logical and systematic thinking. Second semester deals with applying information, finding areas of a polygon, parts of similar polygons, finding surface areas and volumes of all types of Geometric objects.

## **Applied Geometry**

Length of Class: 2 Semesters

Prerequisites: Pre-Algebra

Course Description: This course emphasizes a practical approach to the study of geometry and

deemphasizes an abstract, formal approach. Topics 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, quadrilaterals, vertical angles, lines intersected by a transversal, etc.

## **Algebra II**

Length of Class: 2 Semesters

Prerequisites: Geometry, Graphing Calculator TI-84 Plus highly recommended

Course Description: Algebra II is a continuation of Algebra I. It includes concepts of Geometry in many of the application problems. Every area covered in Algebra I is expanded upon in Algebra II. We cover topics on real number writing and graphing linear equations, quadratic equations, factoring polynomial equations, working with irrational and complex numbers, analytical Geometry, exponential and logarithmic function, and some trigonometry. Students planning to attend a state university and most four-year colleges need this course to meet admission requirements.

## **Probability and Statistics**

Length of Class: 2 Semesters

Prerequisites: Algebra 2

Course Description: This course is intended to give students an introduction to topics that would be covered in a college level Statistics and Probability class. Topics include descriptive statistics, probability and various probability distributions, inferential statistics, hypothesis construction and testing, correlation, and regression.

## **Pre-Calculus**

Length of Class: 2 Semesters

Prerequisites: Algebra II, Graphing Calculator TI-84 Plus highly recommended

Course Description: Pre-Calculus continues the study of Advanced Algebra. It deals with linear relations and functions, theory of equations, matrices, and vectors. Much of the time is devoted to trigonometry. We study circular functions, trigonometry functions, graph trigonometric functions, and the applications of them. We continue the study of polar coordinates, complex numbers, and conics and introduce the basics of calculus which are limits, derivatives, and integrals.

## **Calculus**

Length of Class: 2 Semesters

Prerequisites: Pre-Calculus, Graphing Calculator TI-84 Plus highly recommended

Course Description: This course is designed to emphasize Calculus concepts. It is intended to convey to the students a sense of the utility of calculus and to develop technical competence. Students complete materials presented at college in Calculus I and about 1/2 of Calculus II.

## **Math Electives: Do not count for college admissions**

### **Pre-Algebra**

Length of Class: 2 Semesters

Prerequisites: Recommendation and approval from the instructor and the high school counselor.

Course Description: This course is a two-semester course that will prepare students for Algebra 1. The primary objective will be to strengthen the student's background in number sense and



computation as well as provide an introduction to variables and equations. Students will gain the skills necessary to dissect and solve story problems. This class is a transition year for those that feel they are not yet prepared for Algebra 1.

### **Consumer Math**

Length of Class: 2 Semesters

Prerequisites: Must be a Junior or Senior.

Course Description: Consumer Math is designed to provide practice with the type of math that is used in everyday life. Students use math to solve problems involving income, banking, income tax preparation, the use of insurance, the use of credit cards, buying and operating a car, renting or buying a home, budgeting, etc.

## **MUSIC**

### **High School Band**

Length of Class: 2 Semesters

Course Description: Band is an instructional course with many performing commitments. Its main purpose is to teach the techniques required to fully appreciate and experience music. This includes the mechanical and emotional aspects of making music. Performance opportunities include: marching, concert, pep and jazz bands. Also included are opportunities to participate in honor bands, solo and ensembles as well as large group contests. High school students who wish to join band for the first time or after a break in enrollment will require instructor approval.

### **High School Choir**

Length of Class: 2 Semesters

Course Description: Choir is a course that enables students to take part in performance and appreciation of many facets of choral music. Its main purpose is to teach the techniques required to appreciate and experience vocal music. Literature is selected from many genres of music from most eras of music history. The study of the voice offers the knowledge of vocal production and interpretation in a choral setting. Performance opportunities include: mixed concert choir, treble clef choir, bass clef choir, honor choirs, all-state chorus auditions, annual musical, concerts, solo and ensemble festival, and large group festival.

### **Music Theory I**

Length of Class: 1 Semester

Prerequisites: Member of band or choir

Course Description: This course allows students to study the principles of rhythm, melody, and harmony in music.

### **Music Theory II**

Length of Class: 1 Semester

Prerequisites: Successful completion of Music Theory I. Member of band or choir.

Course Description: This course gives students an in-depth, advanced study of the principles of rhythm, melody, and harmony in music.

# PHYSICAL EDUCATION

## **Recreational Sports**

Length of class: 1 Semester

Course Description: This course provides students with knowledge, experience, and an opportunity to develop skills in a variety of recreational sports and team sports. Examples include: volleyball, eclipse ball, basketball, flag football, Ultimate Frisbee, Frisbee golf, various dodgeball games and floor hockey.

## **Lifetime Fitness**

Length of class: 1 Semester

Course Description: This course emphasizes acquiring knowledge and skills regarding lifetime physical fitness; content may include related topics such as nutrition, stress management, and consumer issues. Students may develop and implement a personal fitness plan.

## **Strength and Speed**

Length of class: 1 Semester

Course Description: This course includes a background of knowledge necessary to provide each student with a comprehensive, personal fitness training program. Personal assessments, goal sets, and program design will allow students to monitor their progress. The instructor for all students, along with the individual program design, will plan specific exercise prescriptions.

## **Early Bird Physical Education**

Length of Class: 2 Mornings a week for 2 Semesters

Course Description: Early Bird P.E. meets each Monday and Wednesday morning from 6:50 - 7:50. Students will be given an optional shower period from 7:40 - 7:50. This class will be similar to lifetime fitness class and team/recreational sports classes. Each class missed must be made up unless a Dr. excuse is issued.

# SCIENCE

## **Physical Science – Required**

Length of Class: Year Long

Prerequisites: None

Course Description: Physical Science is designed to serve as a foundation for other high school science courses. This laboratory course integrates principles of; chemistry, physics, earth, and space science. It emphasizes inquiry-based learning, process skills, and higher-order thinking skills. Topics to be studied include but are not limited to scientific methods, motion, force, energy, matter, reactions, waves, Earth and Space Systems.

*\*Students in an accelerated math sequence may request to take an advanced science sequence as well. This sequence skips Physical Science. The new sequence would be Biology, Chemistry, and Physics.*

## **Biology – Required**

Length of Class: Year Long

Prerequisites: Physical Science

Course Description: Students learn about living things. Topics include cellular respiration, photosynthesis, structure and function of living systems, genetics, evolution and ecology.

### **Chemistry - Required**

Length of Class: Year Long

Prerequisites: Biology

Course Description: Students learn laboratory, inquiry and problem solving. Topics include energy, elements, compounds, formulas and chemical reactions. Safety goggles are required.

### **Physics**

Length of Class: Year Long

Prerequisites: Biology and Chemistry

Course Description: Students will develop critical thinking and problem-solving skills through exploring physical systems. In examining physical systems, students will develop reliable ways of thinking via modeling that allows them to interpret physical systems. Students will be expected to represent their thinking through graphs, maps, diagrams, mathematical relationships and verbal interpretations. Through consistent interpretation and reliable evaluation techniques, students can develop a deep conceptual understanding of the concepts: motion, forces, and energy.

### **Anatomy and Physiology**

Length of Class: Year Long

Prerequisites: Biology and Chemistry; or teacher recommendation.

Course Description: Students learn the structure and function of anatomical systems of the human body. Topics include skeletal, nervous integumentary, muscular and endocrine systems, circulatory, respiratory, digestive, reproductive and excretory systems.

### **Advanced Biology**

Length of Class: Year Long

Prerequisites: Biology

Course Description: This course encompasses a variety of topics including zoology, botany, microbiology, and genetics. Students will explore these various fields of science and their phenomena relating the material to their lives. In addition students will become skilled in a variety of scientific equipment and techniques used to observe a plethora of organisms found on our planet.

## **SOCIAL STUDIES**

### **American History (1850-1929)**

Length of Class: 2 Semesters

Prerequisites: None

Open To: 10th grade students

Course Description: Survey course that is required by the state of Iowa to pass in order to graduate high school. This course focuses on major themes of US History, from the Sectional Era in the pre-Civil War time period, going as far as the end of the Roaring Twenties. Units studied include, but are not limited to: Sectionalism; the Civil War; Reconstruction; The Old

West; The Industrial Age; Immigration; The Rise of Unions; Populism and the Gilded Age; Progressivism and the US Colonial Empire; World War I; The Postwar World; and the Roaring Twenties.

### **Modern United States History I (1929-1959)**

Length of Class: 1 Semester

Prerequisites: None

Open To: 9-12th grade students

Course Description: This course examines the history of the United States from the end of the Roaring Twenties until the beginning of the 1960's. Units studied include, but are not limited to: The Great Depression; The New Deal; World War II; Postwar America; the Cold War; and Society and Culture of the 1950's.

### **Modern United States History II (1970-2020)**

Length of Class: 1 Semester

Prerequisites: None

Open To: 9-12th grade students

Course Description: This course examines the history of the United States from the end of the decade of the 1960's until the 2020 presidential election. Units studied include, but are not limited to: Watergate; the recession of the 1970's; The Presidency of Ronald Reagan; the AIDS epidemic; the Challenger Space Shuttle Explosion; the Iran-Contra Affair; The fall of Communism/Berlin Wall; The Bill Clinton/Monica Lewinsky Scandal; The Tech Explosion of the 1990's/early 2000's, The September 11th attacks; The Great Recession of 2008; The election of Barack Obama; and the election of Donald Trump. Throughout each unit, we will briefly examine the influence and importance of sports/mass media/pop culture on society.

### **Contemporary United States Issues**

Length of Class: 1 Semester

Prerequisites: None

Open To: 9-12th grade students

Course Description: This course will examine current issues in the United States. The course of study will be twofold- a daily discussion of current news topics from across the continuum in the United States and the world- political, entertainment, sports, etc., as well as units of study involving present day issues in the United States. Thematic units would include, but would not be limited to, larger social issues such as the availability/cost of health care, gun control/gun rights, pro choice and pro life discussions, the affordability of college, immigration, cryptocurrencies and their effects on global markets, and climate change.

### **World Geography**

Length of Class: 1 Semester

Prerequisites: None

Open To: 9-12th grade students

Course Description: This course will provide students with an overview of world geography, but may vary widely in the topics we cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

### **World History I**

Length of Class: 1 Semester

Prerequisites: None

Open To: 9-12th grade students

Course Description: This course examines the Western European/Middle Eastern world from Prehistory up until Early Modern Times. Units studied include but are not limited to: Early Civilizations; the First Civilizations of Egypt, Mesopotamia, the Fertile Crescent, and India; Ancient Greece; Ancient Rome; the Rise of Europe; the High Middle Ages; and the Rise of Islam.

## **World History II**

Length of Class: 1 Semester

Prerequisites: None

Open To: 9-12th grade students

Course Description: This course examines the Western European world from the Early Modern Times until European Imperialism in Africa. Units studied include but are not limited to: The Renaissance; The Reformation; The Age of Exploration; The European Global Empire; The Age of Absolutism; The Enlightenment; The French Revolution; Life in the Industrial Age; and European Imperialism in Africa.

## **Psychology**

Length of Class: 1 Semester

Prerequisites: None

Open To: 10-12th grade students

Course Description: This course will introduce students to the study of individual human behavior in society. The course will provide an overview of psychology, as well as studying topics such as, but not limited to: Human Growth and Development; Personality Theory; behavior; Motivation; Emotion; Stress and Health; and Adjustments in Society.

## **Sociology**

Length of Class: 1 Semester

Prerequisites: None

Open To: 10-12th grade students

Course Description: This course will introduce students to the study of mass human behavior in society. The course will provide an overview of sociology, as well as studying topics such as, but not limited to: Social Problems; Family Structure; Crime and Deviance; Racial and Ethnic Relations; and issues regarding Gender, Age and Health.

## **The 1960's**

Length of Class: 1 Semester

Prerequisites: None

Open To: 9-12th grade students

Course Description: This course will examine the drastic change in American culture and society from the beginning of the 1960's until the end of the decade. In doing so, students will study individual units in a non-traditional manner, with an emphasis on mass media and technology. Units studied include but are not limited to: Music of the 1960's; Television of the 1960's; Movies of the 1960's; the Civil Rights movement in America; the Vietnam War; the Space Race; the JFK Era, Presidency and Assassination; Politics of the 1960's; Sports/Entertainment of the 1960's; and Technological Advancements of the 1960's. Students will also complete a final group project focusing on a major event of the decade, such as the Kennedy assassination, the moon landing, Woodstock, etc.

## **American Government**

Length of Class: 1 Semester

Prerequisites: None

Open To: 12th grade students

Course Description: Required by the state of Iowa for graduation, this course examines the origins and operation of government in the United States. Units studied include but are not limited to: the Constitution and the Amendments; Freedoms of the First Amendment; The Executive Branch; The Legislative Branch; The Judicial Branch; Political Parties; Voting; and the Effect of the Mass Media on the Political Process. Students will also engage in a final project in which they will create a political party to run for the presidency, complete with a platform, campaign slogan and strategies, radio and TV advertisements, yard signs, informational brochures and campaign buttons.

### **Economics**

Length of Class: 1 Semester

Prerequisites: None

Open To: 12th grade students

Course Description: Required by the Lisbon CSD for graduation, this course examines the workings of the modern day global economic model. Units studied include but are not limited to: an Introduction to Economics; Economic Systems and Decision Making; Business Organizations; Demand; Supply; and Employment, Labor and Wages. Students will also participate in a semester long stock market investing project, complete weekly current events involving business models and the economy, as well as studying and examining the effects of credit cards, monetary policy and inflation.

### **Law Studies / Street Law**

Length of Class: 1 Semester

None: 9 - 12

Course Description: This course presents the history and philosophy of law and the legal system in the United States, with a particular emphasis on those topics affecting students as consumers and young adults (such as contractual laws, laws pertaining to housing and marriage, and constitutional rights.)

## **WORK EXPERIENCE**

### **Work Study**

Length of Class: 1 Semester

Prerequisites: **Junior or Senior standing**, approval of the high school principal and supervising staff member.

Course Description: Students may work study with a staff member and assist with classroom or office tasks assigned by their supervisor. This might mean helping out in a teacher's classroom, preparing activities, helping younger students either as a group or individually. Students may not grade papers for other students, should not have access to their classmates' grades, or any other confidential information. Students should expect to report every day and treat this as seriously as an academic class. Students may choose to take this course for 0.5 elective credit OR earn silver cord hours.

### **Practicum/Internship (Offered by Workplace Learning Connection)**

Length of Class: 1 Semester

Prerequisites: **Junior or Senior standing**, academic approval of the high school counselor and successful completion of the Workplace Learning Connection registration process.

Course Description: Students desiring to work off school grounds follow the guidelines set by Workplace Learning Connection. Students are required to attend three meetings during the course of the semester and to complete various assignments. Students must obtain the appropriate number of hours at their work site and complete all requirements in order to receive the corresponding school credit. Some goals of work study are to promote responsibility, dependability, and general work values in a work setting. Participation in the program is based upon successful completion of the course requirements and discretion of Workplace Learning Connection staff, the counselor and the school principal.