

North Linn

Course Description

Booklet

REGISTRATION NOTE TO STUDENTS

Discuss the information in this book with your parents. Prepare and evaluate a tentative schedule using your 4-year plan. Students will register online for courses in the spring of each year. Every attempt will be made to meet your course selections with the understanding that other factors such as teacher load and course enrollment also determine what courses will be taught.

Take your registration seriously. **DON'T ENROLL IN A COURSE SIMPLY BECAUSE YOUR BEST FRIEND ENROLLS IN A CLASS.** Your personal goals may be significantly different than his/hers. All elective courses need to have a minimum of five students enrolled in the course and an available instructor in order to be taught. Courses required by the North-Linn Board of Education and State Department of Public Instruction will not be offered and taught with less than five students enrolled.

Use your parents, counselor, principal, and teachers as resource people to help you make your choices. They can help you make decisions about the future. They also can answer questions you have about courses and how they might benefit your future career.

ACADEMIC SUBJECT ENROLLMENT

All students are required to enroll in at least five academic classes per semester. (Physical education is not an academic course.)

CREDITS REQUIRED FOR GRADUATION

A minimum of 47 credits are required for all graduating seniors. Refer to Board Policy #505.5.

A student must have completed all requirements to participate in commencement. Refer to Board Policy #505.7

Graduation requirements for special education students will be in accordance with the prescribed course of study as described in their Individual Education Program (IEP). Prior to the special education student's graduation, the IEP team shall determine whether the graduation requirements have been met. Refer to Board Policy #505.5.

GRADUATION REQUIREMENTS

In order for a student to receive a North-Linn Credit, he/she must satisfactorily complete a course that meets five days a week for eighteen weeks or one semester. A North-Linn CREDIT is equivalent to ONE-HALF of an Iowa Department of Education UNIT OF CREDIT or ½ of a Carnegie unit. One Carnegie unit requires completion of a course that meets five days a week for thirty-six weeks or two semesters.

Credit will be granted towards graduation for the student if the grade earned is a “D-“or higher in a course. Credit will not be granted towards graduation for the individual if the grade of “F” is earned. Required courses which are not completed successfully (grade of “F”) must be retaken for successful completion and credit towards graduation.

All North-Linn students are required to have a 4 year high school plan using an approved career planning system. Code 505.5

GRADUATION REQUIREMENTS

Students must successfully complete the courses required by the board and Iowa Department of Education in order to graduate.

It shall be the responsibility of the superintendent to ensure students complete grades one through twelve and that high school students complete **47** credits prior to graduation. The following credits will be required:

Starting with the Class of 2017 all students will have the following requirements:

Language Arts	8 credits
Mathematics	6 credits
Science	6 credits
Social Studies	6 credits
Health	1 credits
Physical Education	4 credits
Electives	16 credits

The required courses of study will be reviewed by the board annually.

Graduation requirements for special education students will be in accordance with the prescribed course of study as described in their Individual Education Program (IEP). Prior to the special education student’s graduation, the IEP team shall determine whether the graduation requirements have been met.

Legal Reference: Iowa Code 256.11, .11A; 279.8; 280.3, .14 (1995).
281 I.A.C. 12.2; .3(7);.5; 41.10(9).

Cross Reference: 505 Student Scholastic Achievements
603.3 Special Education

Approved 4/19/06 Reviewed _____ Revised _____

Board Policy North-Linn Community School District

12.5(20) Cardiopulmonary resuscitation course completion requirement: Subject to the provisions of sub-rule 12.5(6), at any time prior to the end of twelfth grade, every pupil physically able to do so shall have completed a psychomotor course taught by a person certified to teach a course that leads to certification in CPR. (Beginning with 2012 graduates)

Iowa Core Curriculum Vision Statement

"Every North-Linn student will learn the essential concepts and skills that will enable them to reach their personal goals and prepare them for life in the 21st century. In doing so, students shall become compassionate, intelligent, productive and well-adjusted world citizens who have sound moral standards, respect for human dignity, and proper regard for human and natural resources."

SCIENCE COURSES INCLUDE:

Physical Science (lab)
Biology (lab)
Chemistry (lab)
AP Biology (lab)
AP Chemistry (lab)
Environmental Science
Anatomy & Physiology (lab)
Physics (lab)
Robotics

MATHEMATICS COURSES INCLUDED:

Algebra I
Algebra II
AP Calculus
Business Math
General Math
Geometry
Pre-Algebra
Pre-Calculus
Statistics

Beginning with the 2008-2009 school year students in Reading Enhancement I or Reading Enhancement II, who have successfully completed the class, will receive an elective credit for the first semester and an English credit for 2nd semester. Students taking Reading 3 will receive 2 English credits.

Note: Reading Enhancement credits are not NCAA acceptable English credit.

SCHEDULE OF CREDITS

SPECIFICALLY REQUIRED COURSES (31 CREDITS)

AMERICAN GOVERNMENT	One credit (12 th grade or 11 th grade with approval)
AMERICAN HISTORY	Two credits (10 th grade)
GEOGRAPHY	One credit (9 th grade)
ELECTIVE SOCIAL STUDIES	Two credits
LANGUAGE ARTS	Eight credits (Eng. 9, Eng. 10, & 4 elective credits)
HEALTH I	One credit (9 th grade)
MATHEMATICS	Six credits (four credits must be completed by end of the student's sophomore year)
PHYSICAL EDUCATION	Four credits (1 credit per semester)
PHYSICAL SCIENCE	Two credits (9 th grade)
BIOLOGY	Two credits (10 th grade)
ELECTIVE SCIENCE	Two credits (11 th grade)
ELECTIVES	Sixteen Credits
Non-required and/or part-time courses	
DRIVER EDUCATION	½ credit

It is the student's responsibility to bring documentation of successful completion of driver's education in order to receive credit.

It is the Student's Responsibility to review his/her credit status and to arrange, with the counselor, plans to resolve any credit deficiencies that may exist. Those plans will need approval of both the counselor and principal.

RECOMMENDED COURSES FOR COLLEGE

It is recommended that students interested in a four year college take a **minimum** of:

- 4 years of English (including one year of writing)
- 3 years of Math (Algebra I, Geometry, and Algebra II or higher)
- 3 years of Science (In most cases Chemistry and/or Physics is required)
- 3 ½ years of Social Studies
- 3 years of a foreign language (some require 2 years to enter with additional years to graduate)

These recommendations are for general college entrance. For some college majors, a student should have more than the above-recommended courses. Students and parents should check with the college admissions office or the school counselor to find out what the best preparation is for the student's intended field of study and the college or university they plan to attend.

COURSE AND SECTION CHANGE/DROP RESTRICTIONS

Required courses must be taken, initially, the year specified under the section "Course Offerings".

Students will need to obtain permission of the instructor, counselor, and principal prior to changing sections. The Counselor and Principal will have right of assignment concerning student placement in multiple section courses.

Students may drop courses and enroll in other courses, with the approval of the principal, counselor, and instructors involved, only during the first three school days at the start of each semester.

The reason for adding or dropping of courses could include inappropriate placement in the course and/or other educationally related reasons. When courses are added or dropped approval must be granted by the Counselor or Principal.

ELIGIBILITY – ACADEMIC

Refer to the student handbook.

PROPOSITION 48

Students who plan to be involved in Division I or II level college athletics should be aware of the NCAA and NAIA regulations in this area. All courses must be approved by the NCAA and/or NAIA.

For more information or questions about NCAA and NAIA requirements:

See the School Counselor

NCAA Eligibility Center website at www.eligibilitycenter.org

NCAA Eligibility Center Customer Service at 877/262-1492

NAIA at www.naia.org

REGENTS ADMISSION INDEX

To be guaranteed automatic admission, students must have the subject-matter background required by UNI, ISU, or U of Iowa, and score at least 245 points on the regents admission index.

Students who score below 245 will still be considered for admission. The index score is not a final determination of enrollment. Students who score under 245 are encouraged to apply and their applications will be reviewed on an individual basis.

FORMULA:

- 2 x ACT composite score
 - + High school percentile rank
 - + 20 x high school GPA
 - + 5 x number of core courses completed
-

Regents Admission Index Score

FEE PAYMENT

Please check with our current Student Handbook and the North-Linn Business Office for the most current information concerning fees for courses.

INDEPENDENT STUDY ENROLLMENT

Students wishing to sign-up for Independent Study classes and not needing to make up credit must have consent of both teacher and administration. The administration may rule upon individual cases as necessary.

CONCURRENT ENROLLMENT OPTION

Students in high school will be eligible for the Concurrent Enrollment Options Act. The following factors shall also be considered in the reimbursement of tuition and in the Board's determination of whether a student will receive high school credit for a course at a post-secondary educational institution:

The course must be taught at a public or accredited private institution: **a comparable course is not offered in the school district**; the course must be a credited course at a postsecondary institution; the course is not religious or sectarian. *Additionally: Students must be proficient in math, science, and reading according to Standard scores in order to take concurrent enrollment class.* Colleges also have the option of adding additional benchmarks which must be met in order to take a college level course. Currently, students are required to have specific scores on the Accuplacer test or ACT.

Prior to taking a course at a post-secondary educational institution, students must obtain approval of the counselor and principal in order to receive credit toward graduation requirements.

The Board shall retain the authority to determine the definition of a part-time student eligible to participate in post-secondary enrollment.

Students will be granted one North-Linn credit for each three hour Post-Secondary semester course successfully completed. High School credit is determined by the credit hours and seat time.

Students must be enrolled as full time students. This would be considered as at least four academic courses (a college course would be considered the 5th class) plus P.E. at North Linn.

The grade earned in a college class will be figured into the student's grade point at North Linn.

Students will not be able to use Concurrent Enrollment to gain credits for classes failed at North-Linn.

Only semester grades, not quarter grades will be recorded at North Linn.

Students should contact the counselor or principal for more information concerning the Concurrent Enrollment Options Act.

Please refer to Board Policy #604.6

Additional Opportunities to Earn College Credit while attending North-Linn

Concurrent Courses earn Kirkwood College Credit and high school credit. The letter grade students receive is entered into their college and high school GPA and transcripts. Students taking Concurrent courses will have an active transcript with Kirkwood.

The transcript can be transferable to other colleges, with the understanding that individual colleges can elect to accept these courses or not. Colleges/universities are constantly updating and changing their curriculum and requirements. It is an excellent idea to verify how and what courses are and are not acceptable. Students and/or parents should contact the student's college of choice to clarify if and how the college will accept Kirkwood Community College credits.

The following North-Linn courses receive Concurrent credit through Kirkwood Community College:

- Architecture Plans & Specs
- Precision Farming Systems
- Programming for the Web
- Desktop Publishing
- How College Works

Linn Regional Center

What is a Career Academy?

Career Academies are college courses set up specifically for high school students. Students travel to 1770 Boyson Road in Hiawatha to take a group of courses in a specific field of interest. (These courses are set up to be taken at the beginning of each day or in the afternoon of each day for the entire school year.) Most academies offer two college classes each semester, for a total of four or more college courses in one school year. Students earn both high school and college credit at NO COST to their families, and more importantly, explore specific career fields to help them make important decisions about their future. In many cases career academies allow high school students a jump start on an applied science diploma, degree or technical certificate at Kirkwood.

**Career Academies Offered
Linn Regional Center
2017-2018**

(List subject to change)

Arts & Sciences: Liberal Arts focus

Advanced Manufacturing/Engineering Technology*

- *American Welding Society MIG welder qualification*

- *National Institute for Metalworking Skills (NIMS) machining certificate*

Architecture, Construction and Engineering (ACE)*

Agriculture Science*

- Explore horticulture and veterinary science

Business Exploration

Criminal Justice

Dental*

Education

EMT

- *CPR certification*

- *EMT certification*

Graphics, Media, Communications and Design

Human Services (Pre-social Work)

Industrial Maintenance/Renewable Energy/Automation

Information Technology*

Patient Care*

- *Nurse Aide certification*

Pharmacy Tech*

Physical Therapist Assistant*

Pre-professional

Project Lead The Way: Engineering*

Transportation*

- *Snap-On Shopkey certification*

- *Snap-On Meter certification*

- *Snap-On Ethos Scan Tool certifications*

*denotes a STEM-based (Science, Technology, Engineering, Mathematics) program

*Academy offerings are determined by the number of interested students, so all academies might not be offered every year.

ADVANCED PLACEMENT COURSES OFFERED AT NORTH-LINN HIGH SCHOOL

AP BIOLOGY *
AP CALCULUS *

EARNING AP COLLEGE CREDIT OR PLACEMENT

With qualifying AP Exam grades, you can earn credit, placement, or both at more than 90 percent of colleges and universities in the United States and Canada. Individual colleges and universities, not the College Board or the AP Program, grant course credit and placement. You should obtain a college's AP policy in writing. You can find this information in the institution's catalog or on its Web site, or by using the AP Credit Policy Info search at: www.collegeboard.com/ap/creditpolicy

Your AP Exam grade is a weighted combination of your scores on the multiple-choice section and on the free-response section. The final grade is reported on a 5-point scale:

- 5 = extremely well qualified
- 4 = well qualified
- 3 = qualified
- 2 = possibly qualified
- 1 = no recommendation

The AP Program conducts studies in all AP subjects to compare the performance of AP students with that of college students in comparable college courses. These studies help set the "cut points" that determine how AP students' composite scores are translated into an AP grade of 1 to 5. AP Exam grades of 5 are equivalent to A grades in the corresponding college course. AP Exam grades of 4 are equivalent to grades of A-, B+, and B in college. AP Exam grades of 3 are equivalent to grades of B-, C+, and C in college. You control which colleges (if any) receive your AP Exam grades.

EARLY GRADUATION REQUIREMENTS

Early graduation is addressed by Board Policy 505.6. Students must have approval of the Board of Education and obtain a recommendation by the Superintendent or Principal.

In order to graduate at mid-year a student must meet these requirements:

1. Must have completed all graduation requirements by the end of the fall semester.
2. Must submit a written letter of request for early graduation to the principal, signed by both the student and parents/guardians. This written request must be submitted not later than December 1st of their senior year.
3. Must turn in all books and other equipment and pay all fines or fees.

There will be no mid-year graduation ceremony. Students who elect to graduate early may return to participate in the regular scheduled ceremonies or receive their diplomas in the school office.

Students who graduate early will not be allowed to take part in any school activities, including prom, after they finish course work toward graduation.

COMMENCEMENT / GRANTING OF DIPLOMA

Students who have successfully completed high school shall be granted a diploma and be permitted to participate in the commencement ceremony. Successfully completed means that students have met the credit requirements for graduation from North-Linn, or have equivalent credits from an accredited public or private secondary school. Resident North-Linn children, who are receiving “Competent Private Instruction” or are “Dual Enrolled” under provisions of Iowa Code 299.4, will not be permitted to participate in commencement ceremonies, nor will they be included with enrolled students in determining honor roll, class rank, salutatorian, or valedictorian.

The Board of Directors may exclude students from participation for violation of rules established for the orderly governance of the school. The commencement ceremony shall be secular.

MODIFICATION OF SCHEDULE

A modified schedule may be granted to students unable to attend school due to a disabling illness, handicap, personal, or family condition. A person returning to school to complete graduation requirements may also be granted a modified schedule.

The student is to present a written statement to the counselor which will include:

1. nature of the problem
2. suggested modifications
3. length of time necessary to complete program
4. plans for completion of the regular program of studies
5. parental/guardian permission where applicable

North-Linn Community School District Statement of Educational Equity Policy

The North Linn Community School District offers career and technical programs in the following service areas: Agricultural Education, Business Education, Health Occupations Education, Family and Consumer Sciences Education, Industrial Education, and Marketing Education. It is the policy of the North Linn Community School District not to discriminate on the basis of race, color, national origin, sex, disability, religion, creed, age (for employment), marital status (for programs), sexual orientation, gender identity and socioeconomic status (for programs) in its educational programs and its employment practices. There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy please contact the district's Equity Coordinator, Scott Beaty, Middle School/High School Principal at 3033 Lynx Drive, P O Box 200, Troy Mills, IA 52344 or by phone at 319-224-3291 Ext. 1 or by email at sbeaty@northlinncsd.org.

CAREER EDUCATIONAL OPPORTUNITIES

The administration and staff at North Linn believe it is vital for our students to be knowledgeable about their interests and to explore career opportunities throughout their educational time.

In grades kindergarten through fifth the counselor discusses career awareness at each grade level. She also introduces several career experiences (such as post office and school supply store) to explore different careers and opportunities to help students begin the process of learning about different jobs and careers. Middle School and High School teachers link their class information to different occupations and opportunities in the 'world of work', as do elementary teachers.

8th Grade students learn to use MAP which allows them to explore their interests, specific occupations, and to plan their educational and occupational careers during and after high school. Students outline what classes they will need to take to reach their occupational goals, while taking into account their individual strengths and interests. Goal setting is done throughout the curriculum (K-12).

Every spring all eighth graders and their parents/guardians are invited to Transition Night. During this time students and parents review the required courses in high school and finish setting up or review their student's four year academic plan. Eighth graders are invited back before school starts to familiarize themselves with the high school, the student handbook, and to make any necessary changes in their schedules.

The counselor meets with every class several times during the school year to disseminate pertinent and relevant information concerning each specific grade level. The counselor also meets with each senior one to one to discuss post-secondary plans and/or options.

The counselor/advisors meet with each high school student in the high school at least once a year to review their four year plans and update any changes as required by the state. Students also have access to their individual plan on MAP throughout their high school career, to constantly review and update their educational goals. The counselor arranges a group visit for all seniors at Coe, Kirkwood, and UNI and meets with each senior individually to discuss their educational plans.

Students have the opportunity to select classes like ‘Workplace Readiness’ and ‘Adult Living’ to better prepare them for life after high school. All juniors attend a college fair held each year in September at Kirkwood Community College.

The counselor also works with ‘Workplace Learning Connection’ to set-up Job Shadow experiences for students in their sophomore, junior and senior years. Students can also participate in an internship experience through ‘Workplace Learning Connection’ the summer between their junior and senior year of high school or during their senior year. Both experiences require the student to fill out an application and complete an interview, both of which are great learning opportunities for students.

High School Students – Career Development Day

Middle School Students – Career Exploration Field Trips

Agricultural Education

Course Name	Principles of Agriculture Science and Technology
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	No Prerequisites Required for FFA involvement
Description	This is an introductory course that presents students with the foundations of agricultural science. Students will develop skills and knowledge in ag careers, animal science, agriculture mechanics, and global issues related to agriculture and plant science. Learning experiences will include hands on experience as well as various classroom and laboratory exercises. Students will also learn leadership skills through and introduction to FFA.

Course Name	Animal Technology
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principals of Agriculture Science and Technology
Description	The focus of this course is to develop advanced skills in animal

	<p>science. The primary units of study will be: Animal Reproduction, Genetics, Animal Systems, and Feeding and Nutrition. Practical experiences will focus on applying basic scientific procedures and practices as well as learning through new developments in the animal industry.</p>
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Course Name	Natural Resources
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principals of Agriculture Science and Technology
Description	<p>This course is a broad and diverse study of the natural resources and their relationship to agriculture. Students are taught the importance of the basic natural resources including soil, air, water, forest, wildlife, etc. Emphasis is placed on developing knowledge and skills needed for the management and conservation of these resources.</p>

Course Name	Agriscience
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principals of Agriculture Science and Technology
Description	<p>This course will look at the diverse areas of agriculture, examining the scientific application, processes, and principles on how they relate to agriculture. Areas of study and</p>

	experimentations will include: methods of scientific investigation, production agriculture, environmental systems, structural systems, agriculture power, and agriculture processing.
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Course Name	Aquaculture
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principals of Agriculture Science and Technology
Description	In this class students will identify opportunities in the aquaculture industry; identify aquaculture species and their anatomy; examine principles of production and management; operate a fish hatchery and re-circulating production system; control nutrition, evaluate and maintain water quality; and process and market fish.

Course Name	Horticulture/Landscape Design
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principals of Agriculture Science and Technology
Description	This horticulture course will introduce students to present knowledge and skills in fruit and vegetable production, ornamental, turf, and landscape design. Students will apply knowledge and skills in real life situations for both private and

	commercial horticultural application. Work in the greenhouse laboratory is included in this course.
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Course Name	Introductory Horticulture
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principals of Agriculture Science and Technology
Description	This beginning level horticulture course is designed to present knowledge and skills in the home horticulture and floriculture areas. Hands on greenhouse laboratory experiences are provided. Areas of study will include: greenhouse management, plant propagation, indoor plant management, and floriculture with an emphasis on both retail and commercial applications. Students will apply knowledge and skills in real life situations.

Course Name	Precision Farming-Concurrent with Kirkwood
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principals of Agriculture Science and Technology
Description	This course covers the fundamentals of Global Positioning Systems with an emphasis on agricultural applications. Technical aspects of GPS satellites differential corrections, field

	navigation and yield mapping will be covered. <i>Students will receive three college credits after successful completion and will be registered through Kirkwood Community College.</i>
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Course Name	Plant Technology
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principals of Agriculture Science and Technology
Description	Fundamental agronomic principles are taught in this course. Soil evaluation, alternative agronomic crops, plant nutrition, weed science, and major agronomic plant growth and development. This course offers hands on experience in these topic areas. Problem solving is stressed to develop a working knowledge in this agronomic area of agriculture.

Course Name	Production Horticulture
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principals of Agriculture Science and Technology

Description	This horticulture course will introduce students to present knowledge and skills in the design and maintenance of home and commercial landscape applications. Students will learn to draft landscape designs on paper as well as utilizing Computer Assisted Design Software. Turf management will also be covered in this course. Students will apply knowledge and skills in real life situations.
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Course Name	Agriculture Business Management
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principals of Agriculture Science and Technology Suggested Senior Year
Description	This advanced level course is designed to emphasize agricultural business management. Students will have hands-on experience with computers and other data serving networks. They will manage simulated businesses. Learning opportunities will include credit and money management marketing, planning and decision making. Management principles, record keeping, and occupational/career planning will be stressed.

Course Name	Agriculture Technology
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or	Preferred Principals of Agriculture Science and Technology

suggested requirements	Suggested Senior Year
Description	This course is designed to introduce and advance student skills in agriculture technology transfer. Learning opportunities will be centered around technological advances in agriculture. Students will learn and practice agriculture applications in computer hardware and software on DOS/Windows based computers, global positioning systems, and other technological advancements related to the field of agriculture.

Business Education

Course Name	Introduction to Business
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	
Description	This class is an introductory course that presents students with the foundations of various aspects of the business world and his/her role in it. Areas to be covered include the economic system, the nature and form of American business, consumer rights and responsibilities, entrepreneurship and marketing. This course is strongly recommended for those interested in additional business courses.

Course Name	Business for Teens
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No

Core Course	No
Prerequisites and/or suggested requirements	
Description	This course exposes students to area of personal finance that they will likely encounter as teenagers. The curriculum covers, among other topics: consumer awareness, money management, opening bank accounts, managing a checkbook, managing credit, applying for a job, and basic information about saving and investing. Information will be presented through projects, activities, guest speakers, and multimedia presentations.

Course Name	COMPUTER BUSINESS APPLICATIONS
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	
Description	This course is designed to provide hands-on experience with application software for the personal computer in Windows. Students will explore Microsoft Office by completing individual projects in each of the following programs: Word, Excel, PowerPoint and Publisher.

Course Name	ENTREPRENEURSHIP
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No

Core Course	No
Prerequisites and/or suggested requirements	
Description	Students in Entrepreneurship will develop an operating plan and organizational structure that will culminate in the development of a comprehensive business plan for a new business idea of their choosing. Components include opportunity recognition, feasibility of the business, strategic business planning, marketing research, finance, and business monitoring. Topics include choosing a business location, advertising and promotion, designing a store layout, marketing research, obtaining finance, competition analysis, and pricing methods. Students will also prepare a presentation based on the submitted business plan in attempt to pitch their idea to the class who will serve as potential investors.

Course Name	ACCOUNTING I
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	
Description	This course gives students a thorough background in the basic accounting procedures used to operate a business and also prepares them for college accounting classes, which are required of all business majors. Students will learn the accounting cycle and use double-entry accounting for a variety of business organizations, including proprietorships, partnerships, and corporations. Students will prepare monthly

	journals, ledgers, payrolls, and worksheets as well as end-of-fiscal-period financial statements. Both manual and automated accounting procedures are covered. Several projects and business simulations are used during the course to add realism and to give the students practical experience.
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Course Name	Accounting 2
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Accounting 1
Description	This course is a continuation of the Accounting I course and will deal with Cycle 3 Accounting, double entry accounting concepts for a corporation as further preparation for college accounting.

Course Name	Desktop Publishing
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Concurrent Enrollment through Kirkwood
Description	This course allows students to create professional-quality documents, such as one-page bulletins or short newsletters,

	<p>using desktop publishing software. The student will also integrate text, graphic and image files previously created with a variety of application software.</p> <p><i>Desktop Publishing is a Kirkwood Community College Information Systems Management Academy course and students will receive three college credits after successful completion and will be registered through Kirkwood.</i></p>
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Course Name	Web Programming
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	This is a concurrent enrollment course with Kirkwood
Description	<p>In this college credit course students will learn the basics of writing Hypertext Markup Language (HTML) to create Web pages that include graphics, links, tables, frames, forms and styles. Students will also learn the basics of Cascading Style Sheets (CSS), JavaScript, and Dynamic HTML on an introductory level. Using project-based learning in the lab students will create Web pages and develop a Website that includes text, tables, graphics, and Web forms.</p> <p><i>Fundamentals of Web Programming is a Kirkwood Community College Information Systems Management Academy course and students will receive three college credits after successful completion and will be registered through Kirkwood.</i></p>

English

Course Name	English 9
Total Credits	2 Credits
Required or Elective	Required
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	
Description	<p>This course focuses on reading, writing, speaking, viewing, and listening. During the first semester of this course, students will work on strategies for comprehending nonfiction texts. The focus of these strategies is to get students to understand what they read while also thinking independently about the texts. Students will also work on essay writing during the first semester of this course with organization, topic selection, mechanics, and revision being key components of their work.</p> <p>We move into fiction during the second semester of this course. Our focus will be on the three major components of fictional narrative writing: character, plot, and setting. We will be reading multiple short stories, watching a feature film, and reading a novel during this semester. The reading strategies and writing skills obtained during the first semester will be transferred into work done while focusing on fiction during the second semester.</p> <p>A major goal of this course to get students to become independent learners and thinkers.</p>

Course Name	English 10
Total Credits	2 Credit
Required or Elective	Required
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	English 9
Description	

Course Name	Communication and Society
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	Yes
Prerequisites and/or suggested requirements	English 9 and English 10
Description	<p>This course focuses on interpersonal communication when working in groups. Gaining job acquisition skills is also a major component of this course.</p> <p>The course offers student opportunities for hands-on activities and projects to help prepare for the working world. Those projects and activities include group/team building projects, resumé/cover letter writing, and interviewing.</p>

	Students will also learn about ethical internet communication.
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Course Name	Applied Communications
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	English 9 and English 10
Description	<p>The purpose of this course is to develop communication skills that can last a lifetime. The course will help increase the basic knowledge necessary to succeed in adult roles. The five principles of communication are the focus of this course: awareness, verbal communication, non-verbal communication, listening and responding thoughtfully, and adapting messages.</p> <p>This course also sees students work on thinking independently and expressing those thoughts through written and oral communication practices.</p>

Course Name	Public Speaking
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or	English 9 and English 10

suggested requirements	
Description	<p>This course focuses on the basics of public speaking. Each student is required to give a variety of different speeches with the focus varying on each. Every student has a different level of comfortability when it comes to speaking in front of others. The goal for Public Speaking is to create a higher level of confidence in each student with each passing speech.</p> <p>The specifics that are worked on during this class when it comes to public speaking are as follows: mechanics of speech (eye contact, rate, posture, volume), enthusiasm and confidence in topic, outlining, researching, and revision.</p> <p>The skills gained in this course can be applied in a variety of different settings. Being able to speak confidently and clearly in front of others is a lifelong skills that everyone should work at.</p>

Course Name	Advanced Public Speaking
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	Yes
Prerequisites and/or suggested requirements	English 9 and English 10 and Public Speaking
Description	<p>This course allows students to explore additional speech activities while still holding onto the principles learned in Public Speaking. We will be studying the art of rhetoric and how it applies to all functions of public speaking. Another major focus of this course is being able to present speeches for the purpose of entertainment (this can be very difficult). There will also be a portion of this class dedicated to argumentation and debate.</p>

	Students will gain an even deeper understanding of the public speaking process and the abilities/techniques needed to become proficient and comfortable when addressing an audience.
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Course Name	Creative Writing
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	English 9 and English 10
Description	<p>This course is designed to build an environment where noticeable creative language growth occurs throughout the semester. Students learn the basics of writing multiple different pieces of writing for different genres: short stories, personal narratives, playwriting, reviews, and web article basics. This course also focuses heavily on the writing process which involves idea creation, drafting, revision, and peer reviewing.</p> <p>A workshop format is used after the basics are learned. Students are able to explore their own creativity through the lens of writing and have choices as to what formats they choose to explore. The workshop format requires not just creativity, but also determination, self-discipline, and respect for others while working.</p>

Course Name	Responding to Modern Topics
Total Credits	1 Credits
Required or Elective	Elective

NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	English 9 and English 10
Description	<p>This course will focus on students being able to read, write, speak, and listen in response to events taking place in the world around them. It is crucial that each and every students began to develop a sense of how they view the world and this course helps students become thoughtful citizens in this ever changing environment.</p> <p>We will read a class novel (George Orwell's dystopian classic <i>1984</i>) and put a majority of our focus on learning about how and why this man wrote this book while also comparing it to events taking place in our current world.</p> <p>Students will also gain knowledge over post 9/11 policies and actions. This unit will culminate as students viewing a feature film that addresses a multitude of real life issues during the decade that followed those tragic events.</p> <p>Students will also be responsible for taking control of the class at times at they will need to stay current on events taking place that interest them. Student blogs and discussions over topics of their choice will be a reoccurring assignment during this class.</p> <p>It is imperative that every students begin to cultivate their own thoughts and voice. This class will help them do that.</p>

Course Name	Expository Writing 1 and 2
Total Credits	1 Credits for each semester course (2 credits if you take both semesters)
Required or Elective	Elective
NCAA Approved	Yes

Core Course	Yes
Prerequisites and/or suggested requirements	English 9 and English 10 Minimum Cum GPA: 3.0
Description	Expository Writing is a course where students will gain skills in the following areas: page design, advanced publishing techniques, copywriting, editing, and photography all while producing a creative, innovative yearbook that documents school events and accomplishments to be remembered for years to come. There is an emphasis on journalism skills in this class. Participants will gain useful, real-world skills in time management, marketing, teamwork, budgeting, and design. High quality work is expected with submission of all assignments. Course does require time outside of class to complete certain homework obligations.

Course Name	Publications *Does not count as an English Credit towards graduation--only an elective credit
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	English 9 and English 10 Minimum cum GPA: 3.0
Description	Expository Writing is a course where students will gain skills in the following areas: page design, advanced publishing techniques, copywriting, editing, and photography all while producing a creative, innovative yearbook that documents school events and accomplishments to be remembered for years to come. There is an emphasis on journalism skills in this class. Participants will gain useful, real-world skills in time management, marketing, teamwork, budgeting, and design. High quality work is expected with submission of all

	assignments. Course does require time outside of class to complete certain homework obligations.
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Course Name	American Literature
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	English 9 and English 10
Description	A chronological survey of American literature beginning with the earliest inhabitants including Native American writings and those from the Puritans. The text is <i>American Literature</i> by McDougal Littell. The course will include historical materials and outside supplemented readings include <i>The Declaration of Independence</i> , and <i>The Crucible</i> . Content varies slightly with the enrollment. The course also incorporates a wide variety of informative writing submissions analyzing American literature.

Course Name	English Literature
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	English 9 and English 10

Description	A chronological survey of English literature beginning with Anglo-Saxon times up through the Victorian Age. The text is <i>English Literature</i> by McDougal Littell. The course will include historical materials and outside supplemented readings include <i>King Arthur, Macbeth</i> , and a novel by an English author. Content varies slightly with the enrollment. The course also incorporates a wide variety of informative writing submissions analyzing English literature.
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Course Name	Reading Enhancement 1, 2 and 3
Total Credits	2 Credits (one English and one Elective for Reading 1 and 2) 2 Credits (both English for Reading 3)
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	None
Description	<p>This course is an elective credit first semester, however, one English credit will be given second semester if both semesters are completed successfully.</p> <p>Students who continually score below the proficient level on the MAP assessments proctored at the beginning and end of each academic year will be recommended for admission into the Reading Enhancement program. The class focuses on teaching students reading strategies to improve reading comprehension, fluency, and text analysis. All strategies addressed in the course are researched based and proven to help improve overall student reading abilities.</p> <p>***MAP (Measures of Academic Progress) test data is used in combination with teacher recommendation for admission into this class. Parents of students</p>

	recommended for this class will receive a notification letter in late spring regarding their child's enrollment in this class.***
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Course Name	World Perspectives
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	English 9 and English 10
Description	<p>World Perspectives is a course designed to familiarize students with the great ideas of a variety of peoples through time. Students will develop a heightened awareness of and an appreciation for other cultures and worldviews, while at the same time, students will discover the similar experiences that people share from nation to nation and from era to era.</p> <p>Students will be expected to complete several short writing assignments, along with daily homework assignments over the reading. This is a literacy survey course, some of the topics covered will be: world myths and folktales, Chinese/Japanese literature, African literature, Middle East/Ancient literature, Persian/Arabic literature, Indian literature, and a few other genres.</p>

Course Name	Advanced Composition
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Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	English 9 and English 10 Suggested MAP RIT: 225 or higher.
Description	<p>Course examines and utilizes the writing process for summaries, a variety of essays including comparison, classification, definition, evaluation, a book review, a literary analysis, and, a research paper using MLA & APA formats. Course includes review of sentence and paragraph structure and grammar usage as necessary. There is also a heavy concentration on vocabulary. This is a recommended college prep class.</p>

Family Consumer Science

Course Name	Child Development 1
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	No Prerequisites
Description	Child Development I studies the physical, social, emotional, and mental development from conception through the first year of life. Students are required to take home the "Real Care" baby for one weekend as part of the class requirements. Topics related to child development are also studied such as: child abuse, parenting options, teen pregnancy, family planning, and nutrition.

Course Name	Child Development 2
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or	Preferred Child Development 1

suggested requirements	
Description	Child Development II begins with toddlers and continues through adolescence. The four types of development (physical, mental, emotional, and social) are studied with each age group. Current concerns such as disabilities, early childhood education, and careers are studied throughout the semester.

Course Name	Workplace Readiness
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	None
Description	This course is designed to help prepare the student to enter into the ever-changing workplace. There will be a focus on career selection, job seeking skills (including writing resumes, completing applications, and improving interviewing techniques). Job maintenance and enhancement skills such as problem solving techniques, teamwork application situations, and self-management skills will be discussed.

Course Name	Adult Living
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	None

Description	This course is designed to help you make the leap from a high school student into the 'real world'. We will discuss the skills needed in order to succeed in life whether living on your own or with roommates after high school; whether pursuing post high school education, training, or on the job experience.
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Course Name	Foods 1
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	None
Description	Foods is an introductory course on nutrition and food. You will learn the basics of safety, sanitation, measuring, terminology, equipment, and nutrition. Current concerns and topics will also be discussed. A highlight in the course is the lab experience. Examples of possible lab experiences may include: cookies, homemade pizza, omelets, and more!

Course Name	Foods 2
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No

Prerequisites and/or suggested requirements	Preferred Foods 1
Description	Foods 2 is a continuation from the introductory course. Topics include: convenience foods, cultural influences, small appliances, and meal planning.

Foreign Language

Course Name	Spanish 1
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	No Prerequisites
Description	Spanish I is an introductory course to the Spanish language. We will study vocabulary, grammar, and culture utilizing reading, writing and listening skills. This course requires strong memorization skills as we build a foundation of vocabulary and grammar. Recommended for college-bound students but open to all interested students.

Course Name	Spanish 2
Total Credits	2 Credit
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes

Prerequisites and/or suggested requirements	Spanish 1
Description	This is an intermediate level course designed to continue acquisition of the Spanish language through vocabulary and grammar. Listening, speaking, reading and writing skills will continue to be developed. Culture will be explored through films and projects.

Course Name	Spanish 3
Total Credits	2 Credit
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Spanish 1 and 2
Description	Spanish III is the third level of language instruction that builds on previously learned material and continues with more grammar and vocabulary. Reading, writing and speaking projects will be used to allow the student to explore cultural topics and use the target language authentically. Spanish is spoken exclusively.

Course Name	Spanish 4
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Spanish 1, 2, and 3

Description	This advanced foreign language course continues with advanced grammar concepts and additional vocabulary. In addition, students will be reading and writing about the history of Mexico and some well-known pieces of Spanish literature.
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Health

Course Name	Health
Total Credits	1 Credits
Required or Elective	Required
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	None
Description	<p>Health I introduces the students to a variety of Health topics and terminology. With a great variety of sources for Health information available, the course will help the student to sort out and use reliable information.</p> <p>The topics covered are: healthy choices, mental health, infectious and noninfectious diseases and disorders, personality and behavior, life cycle, medicines and drugs, first aid and safety, and environmental health. Students will learn to differentiate between healthful and harmful behaviors. Through the facts learned in class, the students will have the skills to promote a healthy lifestyle for themselves.</p>

Industrial Technology

Course Name	Introduction to ACE
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	
Description	<p>This course is a prerequisite for any other Industrial Technology class taken in the North Linn Industrial Technology area.</p> <p>This class is designed to give students a basic introduction and overview to the topics available within the Industrial Technology Department at North Linn. It would allow students the ability to engage in almost all areas of study offered in the department. These areas include manual drafting, computer aided drafting and design, blueprint reading, construction of a model building, woodworking, sheet metal construction, as well as an energy and power unit involving CO2 cars. Students will spend approximately three to four weeks per unit. All units include safety, hands-on work, and a project.</p> <p>Most assessments are done in class and are based on work completed, 21st century skills, employability skills, and other skills as determined by the instructor.</p>

Course Name	Construction Materials Processing
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Introduction to ACE-preferred
Description	<p>This course is designed to give students an introduction to the basic study of woodworking, construction, and the tools used. Students will be focusing on shop safety, machine operation, and hand tools. Students will also learn about specific types of wood, wood joinery, machinery, equipment, and other woodworking terminology.</p> <p>A required project is made by each student where they will use most of the machines in the woodshop area. Students will learn how to make a set of working drawings, materials list, plan of procedure, and a bill of materials for each project completed.</p> <p>Students must also make a project using the wood lathe. Students are responsible for the cost of any project. If this may be a problem, be sure to talk to the teacher ahead of time.</p> <p>Class time permitting, students may choose a second project to build with the instructor's approval.</p>

Course Name	Advanced Construction Material Processing
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No

Core Course	No
Prerequisites and/or suggested requirements	Construction Material Processing
Description	<p>This course is designed for students who show advanced skills in woodworking. They may be planning to make a career in the woods or construction area. Students will use their skills to plan, design, and construct an individual project. Students are responsible for the cost of all projects. If this may be a problem, be sure to talk to the teacher ahead of time.</p> <p>All projects are subject to instructor's approval and guidelines. Students will re-visit how to make a set of working drawings, materials list, plan of procedure, and a bill of materials for each project completed as well as a 3D drawings. Students are also required to make at least one project using the dovetail jig. Time permitting students may choose a second project to build with the instructor's approval.</p> <p>Most assessments are done in class and are based on work completed, 21st century skills, employability skills, and other skills as determined by the instructor.</p>

Course Name	Construction Technology
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Intro to ACE and Construction Materials Processing
Description	<p>This course is designed to give students an introduction to construction systems in today's society. Students will be responsible for the construction of group project(s) built throughout the semester. The project(s) will be determined by the needs and wants of the class, community, and school district as well as the experience of the classmates involved.</p>

	<p>Examples of the types of projects may include but are not limited to: concrete work including sidewalks or patios, shelters, dog houses, school projects, and portable utility sheds or garden sheds. There will be a wide range of topics from concrete construction, rough framing construction, roofing construction, interior construction, electrical, HVAC, fine finish carpentry, and other topics involved within the construction field.</p> <p>Should specific projects not be available, students will still have access to a module style of learning. For example, students might be able to learn how to apply roofing materials on a small movable portion of a roof that is in the North Linn shop. Or they may be able to learn how to wire up common household outlets, lights, and switches in a mock wall design.</p> <p>Most assessments are done in class and are based on work completed, 21st century skills, employability skills, and other skills as determined by the instructor.</p>
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Course Name	Metals 1
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Intro to ACE
Description	This course is designed to give students an introduction to the basic studies of metalworking and welding. This course also gives an overview of the practical and usable metal working techniques that may be further excelled and used around the house, farm, or on the job.

	<p>Basic units to be covered by each student include but not limited to: shop safety, hand tools, sheet metal work, shielded metal arc welding (SMAW or Arc), gas metal arc welding (GMAW or MIG), oxy-acetylene welding (OAW), and oxy-acetylene cutting and plasma cutting.</p> <p>Time permitting: students may build a small metals project. Students will use their skills to plan, design, and construct a small individual project. Students are responsible for the cost of that project. If this may be a problem, be sure to talk to the teacher ahead of time.</p> <p>Most assessments are done in class and are based on work completed, 21st century skills, employability skills, and other skills as determined by the instructor.</p>
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Course Name	Metals 2
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Metals 1
Description	<p>This course is designed for students who show advanced skills in metalworking. They may be planning to make a career in the metals or manufacturing areas such as a machinist, tool and die maker, pipe fitter, welder, sheet metal worker, factory worker, commercial construction worker, with many other career options available. Students will use their skills to plan, design, and construct an individual project. The student will be responsible for the raw material costs of this project however they have access to all of the Industrial Technology Department tools and equipment. This project may be built so long as it meets instructor's guidelines.</p>

	<p>Students will learn how to make a set of working drawings, materials list, plan of procedure, and a bill of materials for each project completed. As well as design a 3D drawing of what the project will look like.</p> <p>Students will also be required to complete a welding unit focusing on TIG welding. There are chapters and specific welds to be completed in order to complete the unit. The student will use this to weld mild steel as well as aluminum.</p> <p>Students will also be required to complete a foundry and metal lathe unit. The students will be responsible for the construction of an aluminum hammer with uses of the foundry and the metal lathe for parts production.</p> <p>Most assessments are done in class and are based on work completed, 21st century skills, employability skills, and other skills as determined by the instructor.</p>
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Course Name	Automotive Small Engine
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Preferred Principles of Agriculture Science and Technology
Description	This course is designed for students interested in learning how to maintain and service an automobile. They will learn how to change oil and filter as well as other lubricants, changing tires, spark plugs, winterize, and other common routine maintenance procedures. Other topics that may be discussed include but not limited to electrical systems, powertrain systems, brake systems, and carburetion systems. Students should have access to an automobile to perform these procedures on throughout the semester. This class is a good course for

	<p><i>anyone</i> who drives an automobile. (Note: Students not having a car of their own may still take the class, but are responsible for having or getting a vehicle to perform certain tasks on/with for credit.)</p> <p>Students will also have an opportunity to learn the care, operation, adjustment, and repair of small 2-cycle and/or 4-cycle engine. These small engines are present on all types of equipment from lawn mowers, go-carts, weed eaters, chain saws, four wheelers, dirt bikes, and other small equipment from around the house or farm. Students will be encouraged but not required to have a small engine to work on or re-build during class. If possible a Briggs & Stratton because of the service manuals we have available to us, but students are not limited to this particular brand.</p> <p>Most assessments are done in class and are based on work completed, 21st century skills, employability skills, and other skills as determined by the instructor.</p>
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Course Name	Architectural Plans and Specs
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	This is a concurrent enrollment course with Kirkwood
Description	This is a dual credit course through Kirkwood and North Linn that introduces the skills and methods for reading, understanding, and interpreting construction drawings, blueprints, and technical specifications for residential and commercial buildings. This course will have an online component. Knowledge of a computer will be necessary for all testing and daily classroom activities.

	Most assessments are done in class and are based on work completed, 21 st century skills, employability skills, and other skills as determined by the instructor.
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Course Name	Architectural Modeling
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	This is a concurrent enrollment with Kirkwood
Description	<p>This is a dual credit course through Kirkwood and North Linn that is designed to give students an introduction to construction concepts through a 3D design program called SketchUp. Students will learn how to build individual parts as well as entire systems within the construction world. Students building a virtual 3 dimensional world of construction parts on a computer screen. Eventually, these parts get put together to build major construction systems like a house or commercial building from foundations to roof systems.</p> <p>This class also introduces the materials, methods, and terminology used in modern construction. The class is computer based and focuses on general knowledge in a broad range of systems and the coordination requirements between those systems. This course will also have an online component. Knowledge of a computer will be necessary for all testing and daily classroom activities.</p>

	Most assessments are done in class and are based on work completed, 21 st century skills, employability skills, and other skills as determined by the instructor.
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Mathematics

Course Name	Pre-Algebra
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	No Prerequisites This class does not meet core requirements for college entrance. Suggested MAP RIT: 225 or above
Description	This class involves basic concepts such as percents, fractions, metrics, volume, and area and progresses toward basic algebraic functions.

Course Name	Algebra I
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Total Credits	2 Credit
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	
Description	Algebra I should be a minimum course for most students planning on continuing their education after high school. Student involvement and methods include problem solving, practical applications, computers, calculators, reading, integrated reinforcement, science, and goals aligned with the National Math Standards, topics covered include fundamental Algebra concepts, linear operations, exponents, graphing, polynomials, systems, quadratic equations, and functions.

Course Name	Geometry
Total Credits	2 Credit
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Algebra I MAP RIT: 245 or above
Description	During the course of the year, you will learn and use direct, indirect, deductive and inductive reasoning. You will be learning how to write a variety of proofs, do constructions, work with area, volume, and many other formulas with two-dimensional and three-dimensional objects. Students will need graph paper.

Course Name	Algebra II
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Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Algebra I and Geometry Suggested MAP RIT: 250 or above
Description	<p>Algebra I, Geometry, and Algebra II are usually required for College admission. Student involvement and methods include problem solving, practical applications, computers, calculators, reading, integrated reinforcement, science, and goals aligned with the National Math Standards.</p> <p>Topics include variations, matrices, systems, conic sections, powers and roots, polynomials, quadratics, dimensions, and space. It is recommended to purchase a Texas Instrument calculator (TI-84) especially if you plan to take Pre-Calculus and/or Calculus.</p>

Course Name	Pre Calculus
Total Credits	2 credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Algebra II
Description	<p>Pre-Calculus is a study of advanced math topics beyond Algebra. Included are linear, power, rational, exponential, and logarithmic functions, trigonometry, systems of equations, vectors, sequences, series, probability, statistics, and an introduction to calculus.</p>

Course Name	Statistics
Total Credits	1 credit
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Algebra II
Description	This class is the study of basic statistics and probability. Some topics included are: analyzing data, representing data in different types of charts and tables, measures of central tendencies, regression lines and correlations, combinations, permutations, and an intense study of probability.

Course Name	AP Calculus
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Pre-Calculus
Description	This course is a study of advanced math concepts. The main focus of the course will be limits, derivatives, and integrals of elementary functions and their applications. This class is recommended for students planning to take math, science, or engineering in college. At the completion of the class, students will have the opportunity to take the AP Calculus Test for college credit. Graphing calculators will be needed for this class

	(TI-83 or above is recommended).
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Course Name	Algebra II
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Algebra I and Geometry Suggested MAP RIT: 250 or above
Description	<p>Algebra I, Geometry, and Algebra II are usually required for College admission. Student involvement and methods include problem solving, practical applications, computers, calculators, reading, integrated reinforcement, science, and goals aligned with the National Math Standards.</p> <p>Topics include variations, matrices, systems, conic sections, powers and roots, logarithms, polynomials, quadratics, dimensions, and space. It is recommended to purchase a Texas Instrument calculator (TI-84) especially if you plan to take Pre-Calculus and/or Calculus.</p>

Course Name	Financial Algebra (Business Math)
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	
Core Course	N0
Prerequisites and/or	Algebra I

suggested requirements	
Description	This course is designed to teach students to solve everyday personal and business problems. Subject matter consists of: Investments, Expense and Revenue Analysis, Bank Accounts and Interest, Loans and Credit, Transportation Costs, Income and Benefits, Taxes, Costs of Living Independently, Planning for Retirement, and Preparing a Budget. This class uses concepts from Algebra such as solving equations and graphing. Students will frequently make use of a graphing calculator.

Course Name	General Math
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	None
Description	General math will emphasis the very basics of all maths. Addition, subtraction, multiplication and division are included. Learning to do these function easily and successfully will be taught before anything else. Other areas that may be covered include: whole numbers, fractions, and decimals.

Course Name	Financial Literacy
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No

Core Course	No
Prerequisites and/or suggested requirements	
Description	This course will teach students basic math concepts that they will use in their daily adult lives. Topics include making a budget, using bank accounts, buying/renting, insurance, and transportation cost.

Science

Course Name	Physical Science
Total Credits	2 Credits
Required or Elective	Required
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	None
Description	Physical Science is a required course. This course emphasizes basic concepts of the scientific method, chemistry, physics, and earth science as they apply to life events as well as an introduction and background for upper level physical science coursework. Specific topics covered include: measurement, laws of motion, energy and work, thermal energy, properties of solids, liquids and gases, the composition and classification of matter basic to chemistry, sound and light, electricity, and the formation of the earth and our solar system.

	Laboratory work and demonstrations are associated with the above topics. Some basic mathematical calculations relative to course topics are included throughout the year.
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Course Name	Biology
Total Credits	2 Credit
Required or Elective	Required
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Physical Science
Description	<p>Biology is the study of living things, with an emphasis and appreciation for all life and how living things interrelate.</p> <p>1st semester: A study of cells and their life activities, including representative, one-celled types and the technology and skills necessary to observe them, occupies the first quarter. Biology has many areas and offers future job opportunities. Botany occupies a large part of this term.</p> <p>2nd semester: An integrated study of Invertebrates and Vertebrates with the emphasis on the complexity of accomplishing the activities of life, a study of diseases which may occur and an understanding of how we and other Vertebrates fit into the environment.</p>

Course Name	Chemistry
Total Credits	2 Credit
Required or Elective	Elective

NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Physical Science and Biology Algebra 1
Description	<p>Chemistry reaches into almost every area of our lives. As we increasingly become dependent on technology, more decisions will involve scientific concepts and consequences. Chemistry is a study of the substances in our world, what they are made of and how they act and interact with each other. The purpose of this course is to help students learn the basic concepts of chemistry to prepare them for future technical or college programs which require an understanding of the fundamentals of chemistry.</p> <p>The First semester topics include matter and energy, properties of matter relative to the periodic table, atomic and molecular structure, common elements, compounds and their formulas. The second semester topics include chemical measurement and calculation, chemical formulas and equations, calculations involving molecular mass, solutions, equilibrium, acid-base concepts, oxidation reduction reactions, qualitative analysis, and an introduction to organic chemistry.</p> <p>Laboratory work and demonstrations are associated with the above topics.</p> <p>Passing a year of Algebra I is strongly suggested before taking Chemistry. Carefully check your post high school education course requirements regarding required and recommended science courses.</p>

Course Name	Physics
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	Yes

Core Course	Yes
Prerequisites and/or suggested requirements	Algebra 1
Description	<p>A study of physics and its applications is basic and vital to all students, whatever their educational goals. This course also provides students with a background for technical or college programs which require an understanding of the fundamentals of physics while still providing an opportunity for the general education student to learn the basic science principles in this area of physical science. Many lab activities and demonstrations relating to everyday applications of physics supplement the solving of problems related to the various physics topics. The first semester topics include: force and motion, work, power, energy, heat and temperature.</p> <p>The second semester topics include: wave motion, sound, light, reflection and refraction, electrostatics, direct and alternating current electricity, astrophysics, and selected astronomy topics. Passing a year of Algebra I is strongly suggested before taking this class.</p>

Course Name	Human Anatomy and Physiology
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Chemistry
Description	<p>1st semester: Living systems are composed of chemical units which function according to basic principles. Organic compounds such as fats, proteins, carbohydrates, DNA-RNA, living cell, and pH-pH systems are studied. The continuity of life, Genetics/Hereditry, is investigated, concentrating on the</p>

	<p>following concepts: genetic material, genetic traits, laws and principles, genes in human populations, disorders and normal inheritable characteristics.</p> <p>2nd semester: Anatomy and physiology of man, using vertebrate dissection specimen for lab investigation.</p> <p>Independent work is required of each student in completing lab assignments.</p>
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Course Name	AP Biology
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	Biology
Description	<p>This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors. Three general areas are covered: Molecules and Cells; Heredity and Evolution; and Organisms and Populations. This course has two main goals - to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process.</p> <p>AP Biology is designed to be taken by students after successful completion of courses in high school biology and chemistry. If students choose they may take the AP exam in May and possibly receive college credit; depending on the institution.</p>

Course Name	Environmental Science
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Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Biology
Description	This course will cover major environmental issues. Topics will include local plants and animals, ecosystems, endangered species, conservation of natural resources, pollution and population. Consideration will be given to both the history of the environmental movement as well as current topics.

Course Name	Robotics
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Biology
Description	Robotics is a one semester course in problem solving, applied science, and technology. Students will visit local manufacturers to learn about the application of robotic technologies in the business world. They will also design, build, and program a robot using DC motors and sensors. Culminating their learning experience, the class will compete with other schools and organizations in the FIRST Tech Challenge (FTC). In addition to the course, there are more than \$10 million in scholarships and other funding awarded by colleges and businesses to participants in FIRST's high school

	programs, FTC and FRC.
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Social Studies

Course Name	Contemporary Issues 1 and 2
Total Credits	1 Credit for each semester
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	No Prerequisites
Description	Contemporary Issues will focus on current events both nationally and internationally. Students will view various news programs throughout the course while focusing on specific themes throughout the semester. Themes will focus on both national and worldwide trends. Possible themes for discussion are: The American Family, Violence in America, Professional Sports in America, International Relations, The Environment, Issues in the Workplace, Teens and Alcohol, Teens and Drugs, Gambling, Role Models in America and Abroad, Abuse, Teenage Pregnancy, and others. Grading will be determined by student awareness of the issues and news discussed in class, therefore attendance will be very important to be successful in this class.

Course Name	World History
Total Credits	1 Credit
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	
Description	World History will include the study of Pre-History: The First Humans, The River Valley Civilization, Ancient Greece, Rome and the Rise of Christianity, The World of Islam, World Religions, Emerging Europe and the Byzantine Empire, Europe in the Middle Ages, The Age of Exploration, Crisis and Absolutism in Europe, The East Asian World, Revolution and Enlightenment, French Revolution and Napoleon. The students will have various paper sand projects that they will present to the class.

Course Name	American History
Total Credits	2 Credit
Required or Elective	Required
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	None
Description	American History will be a discussion and analysis of historical events that took place in the United States from 1865 to present. The course will begin with the reconstruction of the Union following the ending of the Civil War. Other topics/units to be discussed will include:

	<ol style="list-style-type: none"> 1. Patriotism and Allegiance to a Country and its Veterans 2. Westward Expansion/The Rise of Industry/An Urban Age 1860 to 1900 3. Imperialism 1967 to 1908 4. World War I Era 1914 to 1920 5. The Decade of Normalcy 1920 to 1929 6. The Great Depression 1928 to 1938 7. World War II Era 1933 to 1945 8. The Cold War 1945 to 195 9. The Civil Rights Era/Vietnam Era 1954 to 1975 10. Camelot to Watergate 1960 to 1975 11. Search for Solutions 1976 to 1992 12. Toward a New Century 1992 to present <p>Emphasis will be placed on the cause and effect of each historical event. An attempt will be made to analyze the significance of each event as it relates to modern day events.</p>
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Course Name	Geography
Total Credits	1 Credits
Required or Elective	Required
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	None

Description	<p>Geography teaches students about the world in which they live. It focuses on space, resources, and people. In this course students will practice basic map skills. A great deal of emphasis will be placed on teaching basic principles and concepts that will allow students to move to a higher, more concentrated level of Geography study. Geography will also study such things as population distribution, resources of various areas, and their uses, transportation and communication, and the impact of people on their environment. Students will gain exposure to the geographic development of the United States, Canada, and other countries. Students will also learn to use maps and graphs to gain a better understanding of Geography.</p>
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Course Name	Government
Total Credits	1 credits
Required or Elective	Required
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	
Description	<p>Government is a required year course for seniors. The major function of the different levels of government is covered. Units dealt with are: The Constitution, The Executive, Legislature, Judiciary branches of government, the Democratic Process of elections and voting, State and Local government, financing government, and U.S. Foreign relations. The basics of government and the political processes involved are stressed and each student must show a proficiency of the basics. Keeping up on current affairs in the U.S. and the world are stressed. Each student will write two or three research papers and present these papers to the class and teacher.</p>

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Course Name	Psychology
Total Credits	1 credit
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	
Description	In psychology students examine the behavior of human beings in an attempt to better understand human behavior. A study of psychology will provide an appreciation of the ways in which the general methods of science can be applied to problems of behavior. As a consequence of their study of psychology students will be likely to accept the sweeping claims and generalizations about human behaviors that are generally made. Students will learn to recognize that many of the motives they attribute to others are really reflections of their own needs and values. As students progress in their study of psychology, they should emerge with an ever increasing appreciation for dignity and importance of man.

Course Name	Sociology
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	

Description	Sociology is the study of man and his interrelationship with his fellow man. It covers how different societies and peoples interact within the main focus of the American society. Topics dealt with shall include man and his culture, the family system, the political system, economic system, the class system and the merging of all these systems to form what we know as the "Human Society'
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Course Name	Economics
Total Credits	1 Credits
Required or Elective	Elective
NCAA Approved	Yes
Core Course	Yes
Prerequisites and/or suggested requirements	
Description	Economics is the study of how human beings satisfy or attempt to satisfy, their unlimited want with the ever decreasing supply of available resources. Some of the units covered include: (1) production of goods and services (2) distribution of goods and services (3) price determination (4) income distribution (5) money, credit, and banking (6) Supply and Demand and how they relate to one another. Students will write two or three research papers and present these papers to the class and teacher.

Visual Art Education

Course Name	Art I
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Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	No Prerequisites
Description	The best place to develop your creativity and powers of expression is the art room. Let the imaginative side of yourself discover the excitement of the visual arts. Introduction to Art is the beginning course where we explore various drawings and painting mediums and the techniques associated with them. We will also work with 3-dimensional materials.

Course Name	Art II
Total Credits	2 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Art I
Description	Art II is a course primarily concerned with the continuation of working with and learning how to manipulate 2-dimensional and 3-dimensional media. Students will start to utilize their own knowledge while working with each material and incorporate their own life experiences within their artwork.

Course Name	Art III
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Total Credits	2 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Art I and Art II
Description	Art III is primarily concerned with encouraging students to develop their own personal imagery and find a voice as an artist. The class is organized to focus on experimentation in as many different media areas as possible. Students will be asked to develop their projects above and beyond the required expectations.

Course Name	Art IV
Total Credits	2 Credits
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Art I, II, and III
Description	Art IV is an independent project oriented course. The course is designed to offer to the student assistance in pursuing an art career or other art related endeavors. During the year we focus on areas such as portfolio preparation, scholarship awareness, and compositional techniques.

Course Name	Advanced Independent Art
Total Credits	2 Credit
Required or Elective	Elective
NCAA Approved	No
Core Course	No
Prerequisites and/or suggested requirements	Teacher Recommendation
Description	The ideas and material covered in this class are completely subject to the individual student taking the course. Teacher recommendation is the only way to enter this course.