

West Branch High School



Program of Studies 2020-2021

Vision: A Future Focused Community of Learners

Mission: Preparing Students to Live and Learn with Passion and Purpose

Destination: All Students will be Career and College Ready

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Counseling Services

The school counselor helps students make the transition from middle to high school, facilitates the passage through high school, and helps with post-secondary planning. The counselor works with students in academic, career, and social/emotional areas during high school.

The counselor provides support by meeting with students to select courses and make adjustments to four-year plans as necessary throughout high school. Social and emotional support is available for conflict resolution, peer pressure concerns, and social difficulties. Any student with severe or chronic mental health concerns will be referred to an outside agency for additional support and/or treatment. The laws of confidentiality and mandatory reporting apply.

Vocational services give information on a variety of occupational choices. Assistance in post-secondary planning (college, vocational school, technical school, job entry, military enlistment) is also provided. Students may use printed vocational information and online resources in the counseling office and access even more resources on the WBHS Guidance website.

Registration Procedure

This course catalog lists course information and graduation requirements for West Branch High School. Students, parents, and the counselor will use this document to create for each student a rigorous academic program that takes the following important questions into account:

1. Are graduation requirements met?
2. Are college/continued study entrance requirements met?
3. Are courses that are appropriate to abilities and interests selected?

Students should:

1. Use this catalog to find courses offered at West Branch High School.
2. Work with parents and the counselor to create a preliminary four-year course of study that fulfills graduation requirements. This plan will be reviewed at yearly meetings with the counselor.
3. Use the course planning chart on the back cover to prepare the assigned registration day.

Course Selection

When reading the course descriptions contained in this catalog, please note course sequencing. Following the sequence for courses will ensure proper preparedness for advanced courses. Grades 9-11 should enroll in a minimum 6 credits each semester, and grade 12 must enroll in a minimum of 6 credits each semester.

Use the Career Cluster Programs of Study to help select courses that will prepare students for specific career goals. These Programs of Study are specific to courses at WBHS and serve as guides or ideas for appropriate and helpful core and elective courses to plan to take during high school.

Any student who fails a semester of a **required** class will be **required** to repeat that semester (or its equivalent, if available). See course descriptions for specific class policies. Students who fail a semester of an **elective** class may **choose** to repeat the course.

Change of Schedule

Registration for next year is an important task for all students, the counselor, the registrar, and the administration. Selection of courses has an impact on your future, on school planning, and on fellow students. Please plan your course selection carefully so changes are only needed in rare circumstances. The following procedures are in place for schedule changes:

- Changes may be made on or before the fifth class day of the semester.
- If a student is failing a class and makes a request to drop a class after the fifth class day, it will result in an F on his/her high school transcript.
- Students who request to drop Concurrent Enrollment courses (college-level courses) must adhere to the high school drop dates to avoid an F on the high school transcript. However, students may choose to drop the course later than the high school deadline and according to the college's drop dates to receive a W grade on the college transcript.

Graduation Requirements

Credit for completed coursework is applied to a student's record at the end of a semester. Unless otherwise noted, half-credits are awarded for courses successfully completed each semester. Diplomas are awarded after the completion of at least 54 credits, with certain credits being earned in the following subject/course areas:

Content	Requirement
English	8 credits including: <i>English 9 (2 credits)</i> <i>English 10 (2 credits)</i> <i>English 11 (2 credits)</i> <i>Senior year of English courses (2 credits)</i>
Mathematics	6 credits
Science	6 credits including: <i>Physical Science (2 credits): Conceptual Chemistry/Conceptual Physics or Chemistry</i> <i>Biology (2 credits)</i> <i>Earth Science (1 credit)</i> <i>Science elective (1 credit)</i>
Social Studies	6 credits including: <i>American History (2 credits)</i> <i>World History (2 credits)</i> <i>American Government (1 credit)</i> <i>Consumer Economics (1 credit)</i>
Health	1 credit including: <i>Health I (1 credit)</i>
Electives	27 credits including: <i>College and Career Planning (1 credit)</i> <i>Elective or additional core courses</i>
Total	54 credits

Additional College Requirements

Many four-year colleges and universities have requirements beyond our local graduation requirements. Students planning to attend college should be sure to enroll in the following additional core courses:

- At least 2 years of the same foreign language (required for state university admission)
- 4 years of foreign language study will exempt students from foreign language college requirements (at UI)
- Science courses including Chemistry
- Math courses including Algebra II

Pass-Fail Requests

Students interested in taking courses for a Pass-Fail grade must receive teacher and principal approval. Students may be eligible to take classes for Pass-Fail if the class is not a required class. **Students must complete a Pass-Fail request form in the office by the week following the midterm grade of the course.**

Early Graduation Requirements

Students seeking to graduate early from high school should complete the following steps:

- Students and parents/guardian meet with the counselor and principal to determine credit status and need for early graduation. A written plan with timelines and dates for early graduation will be placed in the student's cumulative file.
- The early graduate will meet with the counselor and principal 3 weeks prior to the scheduled date of graduation to complete a final check out sheet.
- Students who graduate early are no longer eligible to participate in extracurricular activities.
- Students who graduate a full year early will be ranked with that year's senior class. Students who graduate a semester early will be ranked with the class who graduates in May.

Physical Education Requirements and Waivers

WBHS requires students who do not have an academic, athletic, medical or religious exemption per the Iowa Department of Education Educational standards and the Healthy Kids Act. WBHS is no longer making Physical Education a graduation requirement, but will be required if there is not a reason waiver filed per Iowa Code- IAC 12.4(5)f

- Grade 12:
 - Religious Exemption – Physical education and health exemption. A pupil shall not be required to enroll in either physical education or health courses if the pupil's parent or guardian files a written statement with the school principal that the course conflicts with the pupil's religious beliefs.
 - Athletic and Academic Exemptions -- A 12th grade student may be excused from the physical education requirement by the principal of the school in which the student is enrolled under one of the following circumstances:
 - The student is enrolled in a cooperative, work-study, or other educational program authorized by the school, which requires the student's absence from the school's premises during the school day.
 - The student is enrolled in an academic course not otherwise available.
 - An organized or supervised athletic program which requires at least as much participation time per week as one-eighth unit of physical education.
 - Medical Waiver- proper document must be provided to the office for a medical waiver
 - ***12th grade students can use the same form or waiver for both semesters.***
- Grades 9-11
 - Religious Exemption – Physical education and health exemption. A pupil shall not be required to enroll in either physical education or health courses if the pupil's parent or guardian files a written statement with the school principal that the course conflicts with the pupil's religious beliefs.
 - Students may be excused from the physical education requirement to enroll in academic courses not otherwise available to the student if the board of directors of the school district in which the school is located, or the authorities in charge of the school if the school is a nonpublic school, determine that the students from the school may be permitted to be excused from the physical education requirement.
 - A student may be excused by the principal of the school in which the student is enrolled, in consultation with the student's counselor, for up to one semester, trimester, or the equivalent of a semester or a trimester, per year if the parent or guardian of the student requests in writing that the student be excused from the physical education requirement. The student seeking to be excused from the physical education requirement must, at some time period during which the excuse is sought, be a participant in an organized athletic program which requires at least as much time of participation per week as one-eighth unit of physical education. The student's parent or guardian must request the excuse in writing. The principal shall inform the superintendent that the student is excused
 - Medical Waiver- proper document must be provided to the office for a medical waiver.
 - ***9th-11th grades can use only one form of waiver per year.***

Testing at WBHS

The testing program at WBHS includes the following assessments:

- PSAT/NMSQT (pre-SAT/National Merit Scholar Qualifying Test) for identified or self-selecting students in grades 10 and 11.
- Iowa Assessments (ISASP) for all students in grades 9, 10, and 11 as required by the Iowa Department of Education
- ACCUPLACER test for placement into Concurrent or Alternative Concurrent college course placement.
- AP (Advanced Placement) for self-selecting students in grades 11 or 12 who enroll in AP courses
- ACT test – October, April, and June national test dates. Note: Students who choose to take the ACT test are required to sign up and pay individually through www.actstudent.org. Students will need to select an alternate testing site other than WBHS.

Parent Approved Release Time (PART)

Senior students may be approved for PART (maximum of 2 periods) if the following requirements are met:

- All credits are in order for graduation (as approved by the counselor)
- Parents approve the PART request, both in writing and with a verbal approval to the office
- The student received no discipline referrals during the previous term
- The student had no unexcused absences during the previous term
- Additional PART requests may be considered on a case-by-case basis based on student work requests
- The student may apply for two periods of PART. The student may apply for period 1, period 8, period 1 and period 2, period 1 and 8, or period 7 and period 8.

Standard Marks, Transitioning from Standard Marks to Letter Grade, High School Grading Scale, and Honors

West Branch High School uses standards referenced grading to calculate traditional letter grades for official transcripts (records of students' course credits/grades).

For each **ASSIGNMENT SCORE** for a standard, PowerSchool assigns a value:

E = 100
S = 85
C = 75
N = 45
I = 0

These scores are then **AVERAGED** together to determine your **FINAL STANDARD SCORE** using these cutoff scores:

E = 90
S = 80
C = 70
N = 1

*******NOTE:** If a student has one or more final standard mark(s) of Needs Relearning (N) or Insufficient Evidence (I) the student is **failing this class**. To meet the requirements of each class, students must be Competent (C) or better for all final standard marks for a class.

All **ASSIGNMENT STANDARD SCORE** numbers are then **AVERAGED** and reported as Traditional Letter Grades:

A = 90+
B = 80-89
C = 70-79
F = Below 70% (failing grade.)

Grade Point averages are calculated at the end of each semester. Cumulative GPAs are used on college applications and for class rank. Note that GPAs displayed on PowerSchool throughout the quarter are a snapshot only of the average of grades for that particular quarter; they are not cumulative GPAs.

West Branch High School GPA Scale

Grade	Grade Point
A	4.0
B	3.0
C	2.0
D	1.0
F	0

*A “D” is only given for Kirkwood Community College classes.

Kirkwood Community College Grading Scale

The student will have to reference each individual class’s syllabus for a grading scale. Each professor has the right to create his or her own grading system and scale.

College Credit in High School

This program allows 11th and 12th grade students as well as 9th and 10th grade students identified as gifted and talented by West Branch Schools to enroll in college courses. This program is intended to promote rigorous academic pursuits and to provide a wider variety of options to high school learners. Students must also meet eligibility requirements listed below. Note: taking a college course does not meet the graduation requirements. Requirements for graduation are based off of the required courses to take at the high school level. The only college course that will fulfill a high school graduation requirement will be Comp 1 and 2 for ELA 12, all other courses will be labeled as electives/core electives. Here are some options you may be interested in considering:

1. **Kirkwood Community College Concurrent/Alternative Concurrent Enrollment Courses:** WBHS offers courses that earn both high school credit and Kirkwood Community College Semester Hours. Students must meet entrance requirements as determined by the Senior Plus Program in order to be admitted into these courses (qualifying ISASP scores plus qualifying ACCUPLACER or ACT test scores). A review of student records for eligibility requirements will be completed during the course request/registration period preceding enrollment in the course. Students not meeting criteria may be evaluated according to our district-approved alternative measure of proficiency; however, students must meet Kirkwood required ACCUPLACER or ACT scores for enrollment. Enrolled students must take the course for both college and high school credit, meaning that the course must appear on both the college and high school transcript and grades will be included in both GPAs. (See the college credit chart on the following page for more details.) Students may not enroll in 24 or more college credits from any one institution during one school year. Click [HERE](#) to see which courses are offered online. When signing up for a Kirkwood course, you have a two week period from the start date to decide if you want to continue with the course or not. If you drop the course within this two week window the course will not show up on your transcript. After the two week period you will be expected to stay with this course. As a result, only under rare circumstances will a course be dropped after the drop period and a W will be given on your transcript, both at the high school and college level.
2. **Kirkwood Community College Academy Credit Courses:** WBHS offers courses in Career and Technical Education Academy areas that qualify for Dual Credit. Students do not need proficient Iowa Assessment scores to participate in Academy Courses, though proficiency may be a predictor of success in the course. Academy credit courses may not transfer outside of Kirkwood Community College. Some Academy courses are age-restricted due to program requirements. (See the college credit chart for a listing of available courses.) Click [HERE](#) to view the program of studies for the Kirkwood Academies.
3. **Advanced Placement:** AP Calculus, AP Music Theory, and AP Chemistry are courses offered within the WBHS schedule. These courses provide the opportunity for students to sit for an AP exam in May. Depending on the student's score and individual university policies, a student may receive college credit for the course (See the equivalency chart on the following page).
4. **Project Lead The Way (PLTW):** Project Lead the Way is a nationally recognized, high school pre-engineering curriculum designed to help students develop better problem solving skills by immersing them in real-world engineering challenges. The courses all use project-based, hands-on experiences to teach students the key elements and skills of engineering and technology-based careers. By completing a series of Project Lead the Way courses, students will be preparing themselves for the demanding rigor of two-year engineering technology and four-year engineering programs. Students enrolling in PLTW courses earn college credit. All students are eligible for EGT credit, which is technical credit specific Associates of Applied Science degrees. EGT credit typically counts as general elective credit when transferring to schools outside of Kirkwood.

Senior Year Plus and Kirkwood College Eligibility Chart

Grade	Minimum Iowa Statewide Assessment of Student Progress	Subject	Minimum ACT Score	Minimum Accuplacer Score
9	Math – 513 ELA – 505	Reading	16	71
10	Math – 537 Science – 545 ELA - 530	English (ACT)/ Writing (ACCUPLACER)	18	57
11	Math – 559 ELA - 561	Math	Varied – see Counselor for information	Varied – see Counselor for information

Kirkwood College Credit Opportunities

The following charts details stand alone classes which will be offered at the Regional Center.

Semester	Offering Time	Day of Week	Course Name	Credit Hours	Section
Fall	9:05-10:00 AM	MWF	Composition I	3	ENG-105
Fall	9:05-10:00 AM	MWF	Intro to Sociology	3	SOC-110
Fall	12:20-1:15 PM	MWF	Personal Finance	3	FIN-121
Fall	7:30-9:00 AM	TTh	Business Innovation	3	MGT-112
Fall	12:20-2:20 PM	TTh	Working in America	3	HUM-105
Spring	9:05-10:00 AM	MWF	Composition II	3	ENG-106
Spring	12:20-2:20 PM	MWF	Literature and Culture: American Dreams	3	LIT-222

Kirkwood College Credit Opportunities

The following charts details which academies will be offered for WBHS students:

Academy Title	Credits	Location	Requirements
Advanced Manufacturing with Robotics & Welding	17 credits	Regional Center	Attendance!
ACE (Pre-Apprenticeship Program)	15-17 credits	Regional Center	Algebra I or Geometry highly recommended
Ag Science (NEW)	12 credits	Regional Center	Meet HS Requirements
Arts and Sciences: Liberal Arts Transfer (5 different options)	12-15 credits	Regional Center	ACT 18 Writing or Accuplacer 82 Writing
Arts and Sciences: Pre-Business Admin Transfer	12 credits	Regional Center	Senior Year Plus Eligible
Arts and Sciences: Pre-Criminal Justice Transfer	12 credits	Regional Center	Senior Year Plus Eligible
Arts and Sciences: Pre-Education Transfer	13 credits	Regional Center	Senior Year Plus Eligible
Pre-Professional Health Careers	14 credits	Regional Center	Senior Year Plus Eligible B or Higher in Biology
Arts and Sciences: Pre-Social Work Transfer	12 credits	Regional Center	Senior Year Plus Eligible
Art, Media, & Design (NEW)	12 credits	Regional Center	Meet HS Requirements
Dental Science	13.5 credits	Regional Center	Meet HS Requirements
Electrical, Energy, and Automation	14 credits	Regional Center	Reading and Writing Requirement Reading 71 or 16 Writing 32 or 15
EMT	15.5 credits	Regional Center	Students must be 17 years old. Biology of a C or higher. Health immunization must be done. Be able to provide their own transportation.
Patient Care	12.5 credits	Regional Center/WBHS	16 years old Current Physical Certified Background check
Pharmacy Technician	13.5 credits	Regional Center	HS Senior 17 years old on first day of class Own transportation at times Health immunizations Placement Scores needed

Transportation Track A	12-18 credits	Regional Center	Placement Scores required
Transportation Track B	12-18 credits	Regional Center	Placement Scores required
Water Environmental Technology (Online)	15 credits	Online Only	Meet HS requirements
Network and Cyber Security	13 credits	Regional Center	Meet HS requirements
Hospitality Careers	12.5 credits	Regional Center	Meet HS requirements
Computer Programming and Software Development	13 credits	Regional Center	Meet HS requirements
Graphic Communication Technology	12 credits	Regional Center	Meet HS requirements

University of Iowa Credit Opportunities

The University of Iowa offers PSEO credits for high school students. **Post Secondary Enrollment Options Act:** A qualified student may enroll in an approved post secondary institution course with tuition/book fees up to \$250.00 paid for by the West Branch School District. Only courses that are not offered at the high school are available for this option. All requests for PSEO are to go through the counselor. Students must be determined eligible by the Senior Plus Program in order to be admitted into these courses (qualifying Iowa Assessment scores plus qualifying ACCUPLACER or ACT test scores – see accompanying chart). Students not meeting Iowa Assessment criteria may be evaluated according to our district-approved alternative measure of proficiency; however, students must meet that college/universities required ACCUPLACER or ACT scores for enrollment. Students may not enroll in **24 or more college credits from any one institution during one school year, including PSEO and Alternative Concurrent, or e.Concurrent Enrollment courses combined.** Enrolled students must take the course for college credit, and the grade will appear on the student’s college transcript and be included in the college GPA. Students must take the course for high school credit, but they may choose to include it in their GPA or count as a Pass/Fail course. Students must communicate intent to the counselor to participate in PSEO courses by April 1 for fall or summer courses and by December 1 for spring courses. Please visit the information below to apply and look at different class options

- Enroll at
 - <https://apply.admissions.uiowa.edu/admissions/login.page>
- Requirements
 - 3.5 GPA
 - Junior, Senior, or TAG student

Advanced Placement for College Credit

The Advanced Placement program is one of credit by examination for college level studies that will be pursued at WBHS. Available AP courses are Calculus, Music Theory, and Chemistry. Examinations administered in May normally consist of two parts: multiple-choice and essay. Depending on the student’s score, he or she may receive college credit.

Regent Admission Index

Iowa Regent Universities (The University of Iowa, Iowa State University, and The University of Northern Iowa) admit students according to the Regent Admission Index (RAI) score. This score utilizes a formula where a student's Cumulative GPA, ACT Composite Score, and number of completed Core Courses are combined to create the RAI score. Students scoring a 245 or higher are guaranteed admission to the Regent University Schools. Students scoring below a 245 may submit their application for individual review. Click "Formula" below to access a link for an RAI calculator. Students are advised to select elective courses from the Core Course chart so that these courses may be entered into the RAI score calculation.

Formula:

$$\begin{aligned} & (3 \times \text{ACT Composite Score}) \\ & + (30 \times \text{High School Cumulative GPA}) \\ & \pm (5 \times \text{Number of High School Courses Completed in Core Subject Areas}) \\ & \text{REGENT ADMISSION INDEX SCORE} \end{aligned}$$

NCAA Eligibility

Also, the NCAA approved core courses that count toward NCAA Eligibility criteria. These criteria are followed when students register with the Eligibility Center to be considered for collegiate athletic participation. The RAI score follows this same listing of NCAA approved courses when determining the Core Courses in the RAI score. To see what courses meet the NCAA Eligibility criteria click [\[Here\]](#) and search West Branch High School. Courses not listed do not count toward the RAI score or for NCAA Eligibility.

Career Clusters

WBHS knows that today's students will have multiple jobs and several different careers over their lifetime. Some will be working in careers that have yet to be created due to rapidly changing technologies. Equipping students with the knowledge and skills to develop a career plan as well as acquiring the academic and technical preparation to be successful is critically important. In the following pages, sequences of suggested high school courses related to career clusters are provided to help students choose courses aligned to future goals.

Career Clusters can help students:

- identify WBHS courses that align with their career interests.
- articulate WBHS courses to post-secondary education.
- make informed choices about course selection and extra-curricular activities related to career interests as a part of their educational plan.

These Career Clusters are in no way meant to be an absolute plan that all students must follow. Rather, they reflect recommendations of potential four-year plans and course choices that may help students connect high school learning with future career endeavors. Please note that required courses are shaded in gray. All other courses listed each year are suggestions of electives that would help prepare students interested in the particular career cluster. Students should not expect to take all electives suggested for each year. In addition, students should discuss all course plans with the counselor, teachers, and parents.

*"Career Pathways." VALEES. Valley for Educational Employment System, 17 Nov. 2010. Web. 9 Dec. 2010.
<<http://valees.org/pathways1.html>>.*

*The Career Cluster icons are being used with permission of the States' Career Clusters Initiative, 2010,
www.careerclusters.org*

Career Clusters

Agriculture, Food and Natural Resources Cluster	14
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Marketing Cluster	27
Science, Technology, Engineering and Mathematics Cluster	28
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Program of Study for Agriculture, Food and Natural Resources Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per sequence	Per sequence	Per sequence	Fourth year recommended
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			Any remaining science course
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Introduction to Agriculture	Principles of Plant Science	Principles of Animal Science, Landscape and Greenhouse Management, KCC Academies	Ag Leadership, Agribusiness Management, Intro to BioTech, KCC Academies
Other Recommended Electives	Spanish 1 (for 4-year degree)	Spanish 2 (for 4-year degree)	Spanish 3 (for 4-year degree)	Spanish 4 (for 4-year degree)
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<u>Careers Requiring an Associate's Degree:</u> Civil Engineering Tech Commercial Driver Farm Equipment Technician Heavy Equipment Operator/Technician Miner Oil and Gas Well Drilling Crew Power Plant Operator Survey Technician		<u>Careers Requiring a Bachelor's Degree:</u> Agriculture Engineer Botanist Civil Engineer Dietician Environmental Consultant or Engineer Farmer Food Inspector Global Information System Specialist Veterinarian	



Program of Study for Architecture and Construction Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per sequence	Per sequence	Per sequence	Pre-Calculus or Calculus
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			Physics AP Chemistry Advanced Biology KCC Academies
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Engineering, Intro to ACE	Principles of Engineering, CSP, Intro to Material Processing, Construction Tech.	Architecture and Construction Management Academy, Civil Engineering, Intro to Ag Mechanics KCC Academies	
Other Recommended Electives	Spanish 1, Visual Art I, Business and Technology Education	Spanish 2, Accounting	Spanish 3, Tech Theatre	Spanish 4, Business Elective
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<u>Careers Requiring an Associate's Degree:</u> Bricklayer/Stonemason Building Inspector Cabinetmaker Carpenter Construction Laborer Drafter Electrician Heating, Air Conditioning, Refrigerator Tech Pipefitter Plumber		<u>Careers Requiring at least a Bachelor's Degree:</u> Architect Civil Engineer Construction Manager Home Inspector Interior Designer Land Surveyor Landscape Architect Real Estate Agent Solar Energy Technician	



Program of Study for Arts, A/V Technology and Communications Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per sequence	Per sequence	Per sequence	
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			Additional elective, such as Physics
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	Am. Government & Cons. Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
CTE Courses	CSE	KCC Academies	KCC Academies	KCC Academies
Other Recommended Electives	Visual Art, Spanish 1, Journalism I, Choir, Band, Communication	Visual Art, Spanish 2, Journalism II, Ceramics, Painting, Drawing, Choir, Band, Any Agriculture Course	Visual Art, Spanish 3, Yearbook, Tech Theater, Choir, Band, Any Agriculture Course	Visual Art, Spanish 4, Choir, Band, Photography, Yearbook, Any Agriculture Course
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<u>Careers Requiring an Associate's Degree:</u>		<u>Careers Requiring a Bachelor's Degree:</u>	
	Actor Announcer Audio-Video Technician Broadcast Technician Computer Animator Fashion Designer Film and TV Crew Graphic Designer Makeup Artist Photographer Recording Engineer Sound Technician Video Game Developer Website Designer		Actor Anthropologist and Archaeologist Art/Music Therapist Art/Music Education Artist Communications Specialist Curator/Gallery Manager Director and Coach Editor Fashion Designer Historian Journalist Musician/Music Teacher Photographer	

		Website Designer Writer
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 Program of Study for Business Management and Administration Cluster				
Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per Sequence	Per Sequence	Per Sequence	4th year is recommended
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			4th year is recommended
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Ag, Entrepreneurship, Business and Tech Ed.	Accounting, REAL	Landscaping and Greenhouse Management and KCC Academies	Ag Business, Ag Leadership, KCC Academies
Other Recommended Electives	Spanish 1	Spanish 2	Spanish 3	Spanish 4
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<u>Careers Requiring an Associate's Degree:</u> Administrative Assistant Advertising Copywriter Bookkeeper Data Entry Clerk Event Planner Facilities Manager Medical Transcriptionist Office Manager OSHA/ADA Compliance Officer Sales Representative		<u>Careers Requiring a Bachelor's Degree:</u> Auditor Business Consultant Certified Public Accountant Corporate Trainer Health Care Administrator Human Resources Manager Investment Executive Marketing Analyst Public Relations Manager School Superintendent	

 Program of Study for Education and Training Cluster				
Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 & 2
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus or AP Calculus
Science	Conc. Chemistry, Conc. Physics, Earth Science, and Biology			Advanced Biology, AP Chemistry (depending on educational focus), KCC Academies
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	Am. Government & Cons. Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses	Intro to Ag	Any Ag. Course	KCC Academies	KCC Academies
Other Recommended Electives	Spanish 1,, Business and Education Technology, Psychology	Spanish 2,, Accounting I, Sociology	Spanish 3, Advanced Psychology	Spanish 4, Business Elective
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<u>Careers Requiring an Associate's Degree:</u>		<u>Careers Requiring a Bachelor's Degree:</u>	
	Child Care Worker Choreographer Coach Diving Instructor Fitness Instructor Sports Instructor Teacher Assistant Translator		Athletic Trainer Clinical Psychologist College/University Faculty Counselor Curriculum Developer Elementary/Middle/High School Teacher Librarian Principal Professor	

		School Counselor/Social Worker/Psychologist Speech-Language Pathologist
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 Program of Study for Finance Cluster				
Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus or AP Calculus
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Entrepreneurship, Business Technology	Accounting REAL	Financial Literacy	Ag Business KCC Academies
Other Recommended Electives	Spanish 1	Spanish 2	Spanish 3, Journalism 1,	Spanish 4, Yearbook, Journalism 2
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<u>Careers Requiring an Associate's Degree:</u> Bank Teller Bookkeeper Commodities Representative Credit Counselor Insurance Agent		<u>Careers Requiring a Bachelor's Degree:</u> Actuary Auditor Certified Public Accountant Economist Financial Planner	

	Internal Auditor Tax Preparer Examiner Treasurer	Foreign Exchange Manager Investment Banker Money Manager Research Analyst
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 Program of Study for Government and Public Administration Cluster				
Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per sequence	Per sequence	Per sequence	Per Sequence
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			Advanced Biology or Physics (especially for 4 year universities)
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			KCC Academies	KCC Academies
Other Recommended Electives	Spanish 1, Sociology, Psychology	Spanish 2, Journalism I, Psychology	Spanish 3, Journalism II, Sociology of Sports	Spanish 4, Communication, Ag Leadership
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<u>Careers Requiring an Associate's Degree:</u> Coast Guard City Manager Election Supervisor Food Inspector Infantry Interpreter Transportation Inspector		<u>Careers Requiring a Bachelor's Degree:</u> Archivist Criminologist Economist Cryptographer Foreign Service Officer Immigration Officer Intelligence Analyst Internal Revenue Investigator Lobbyist Politician Public Policy Analyst	



Program of Study for Health Science Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 & 2
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus or AP Calculus or Stats
Science	Conc. Chemistry, Conc. Physics, Earth Science, and Biology			Advanced Biology, AP Chemistry, Physics, & KCC Academies
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	Am. & Cons.r Economics
Physical Education	Physical Education Health I	Physical Education Health 2	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster		BioMedical Science	KCC Academies	
			Biotechnology in Agriculture	Biotechnical Engineering
Other Recommended Electives	Spanish 1	Spanish 2, Journalism I, Principles of Plant Science	Spanish 3, Journalism II, Principles of Animal Science	Spanish 4, Business Elective
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<u>Careers Requiring an Associate's Degree or less:</u> Dental Assistant/Hygienist EMT/Paramedic Health Records Professional Home Health Aide Lab Technician Licensed Practical Nurse Massage Therapist Medical Imaging Technician Personal Trainer Phlebotomist Psychiatric Aide Radiographer Registered Nurse Veterinary Technician		<u>Careers Requiring a Bachelor's Degree:</u> Anesthesiologist Biomedical Engineer Dentist Geneticist Nutritionist Occupational Therapist Pharmacist Physician (MD/DO) Physician's Assistant Psychologist/Psychiatrist Radiologist Research Scientist Speech/Language Pathologist Surgeon Veterinarian	



Program of Study for Hospitality and Tourism Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per Sequence	Per Sequence	Per Sequence	
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			Advanced Biology
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			KCC Academies	KCC Academies
Other Recommended Electives	Spanish 1	Spanish 2, Journalism 1	Spanish 3, Yearbook	Spanish 4, Visual Arts Classes, Yearbook
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<i>Careers Requiring an Associate's Degree or less:</i> Butcher Caterer Chef Concierge Flight Attendant Hotel Desk Clerk Housekeeper Travel Agent	<i>Careers Requiring a Bachelor's Degree:</i> Curator Event Planner Hotel Manager Recreation Director Sports Marketer Zookeeper	Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<i>Careers Requiring an Associate's Degree or less:</i> Butcher Caterer Chef Concierge Flight Attendant Hotel Desk Clerk Housekeeper Travel Agent



Program of Study for Human Services Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per sequence	Per sequence	Per sequence	
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			Physics or Advanced Biology
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster			Academies	Academies
Other Recommended Electives	Spanish 1, Business and Education Technology	Spanish 2, Accounting	Spanish 3	Spanish 4, Business Elective
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<i>Careers Requiring an Associate's Degree:</i> Esthetician Funeral Director Hospital Service Worker Humanitarian Aid Worker Massage Therapist Optician Community Worker Cosmetologist Early Childhood Educator Florist Personal Fitness Trainer Pet Groomer		<i>Careers Requiring at least a Bachelor's Degree:</i> Adoption Counselor Clergy Counselor (Addictions, Marriage and Family, Crisis, Rehabilitation, Career) Mental Health Nurse Midwife Psychiatrist Psychologist Social Worker	



Program of Study for Information Technology Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Algebra I or Geometry	Geometry Or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus or AP Calculus
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			Physics (if not already taken)
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Engineering Design	Principles of Engineering	KCC Academies	KCC Academies
Other Recommended Electives	Spanish 1, Business and Technology Education	Spanish 2, Visual Arts Courses, Journalism 1	Spanish 3, Visual Design classes, Intro to Stats	Spanish 4, Journalism 2, Yearbook
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<i>Careers Requiring an Associate's Degree:</i> Animator Desktop Publisher Electronics Repairer Quality Controller Technical Sales Representative Technician Video Game Developer Web Developer Webmaster CSE		<i>Careers Requiring a Bachelor's Degree:</i> Animator Computer Engineer Computer Scientist Electrical Engineer Multimedia Developer Project Manager Video Game Developer Web Developer Webmaster	



Program of Study for Law, Public Safety, Corrections, and Security Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per sequence	Per sequence	Per sequence	
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			Physics or Advanced Biology
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Ag	Horticulture and Greenhouse Management	Principles of Animal Science	KCC Academies
Other Recommended Electives	Spanish 1	Spanish 2, Visual Arts Courses	Spanish 3, Intro to Stats	Spanish 4, Business Elective
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<i>Careers Requiring an Associate's Degree:</i> Corrections Officer Court Reporter Crime Scene Investigator EMT/Paramedic Firefighter Park Ranger Police Officer Public Information Officer Security Systems Technician Transportation Inspector		<i>Careers Requiring at least a Bachelor's Degree:</i> Civil Litigator Coroner Federal Agent Forensic Scientist Judge Lawyer Paralegal Probation/Parole Officer Youth Services Worker	



Manufacturing

Program of Study for Manufacturing Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per sequence	Per sequence	Per sequence	Per sequence
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			AP Chemistry and/or Physics
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economic
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Engineering Design, Intro to Ag	Principles of Engineering, Ag Mechanics	Academies	
			Civil Engineering	
Other Recommended Electives	Spanish 1 (for 4-year degree)	Spanish 2 (for 4-year degree), Visual Arts Courses		Business Elective
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<i>Careers Requiring an Associate's Degree:</i> Blacksmith Electrician Heating, Air Conditioning, Refrigeration Tech Industrial Machinery Mechanic Manufacturing Technician Plumber Production Manager Quality Control Technician Tool and Die Maker Upholsterer Welder		<i>Careers Requiring a Bachelor's Degree:</i> Design Engineer Electrical Engineer Environmental Engineer Industrial Engineer Labor Relations Manager Quality Controller Safety Engineer	



Program of Study for Marketing Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per sequence	Per sequence	Per sequence	FST
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			Physics (if not already taken)
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Ag		Ag Business	Landscaping and Greenhouse Management
Other Recommended Electives	Spanish 1, Business Electives	Spanish 2, Visual Arts Courses, Journalism 1, Business Electives	Spanish 3, Journalism 2, Visual Arts Courses, Business Electives	Spanish 4, Visual Arts Courses, Yearbook, Business Electives
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<i>Careers Requiring an Associate's Degree:</i> Copywriter/Designer Customer Service Representative Mortgage Broker Real Estate Agent Retail Marketing Coordinator Trade Show Manager Travel Agent Warehouse Manager Web Developer Webmaster Website Designer		<i>Careers Requiring a Bachelor's Degree:</i> Advertising Account Executive Appraiser Entrepreneur Media Buyer Sports Marketer Web Developer Webmaster Website Designer	



Program of Study for Science, Technology, Engineering and Mathematics Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus or AP Calculus
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			AP Chemistry Physics, and/or Advanced Biology
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Engineering Design, Intro to Agriculture	Principles of Engineering, Industrial Tech and Agriculture Courses CSE	KCC Academies	
			Civil Engineering, Digital Electronics, Industrial Tech and Agriculture Courses	Biotechnical Engineering, Industrial Tech and Agriculture Courses
Other Recommended Electives	Spanish 1, Business and Technology Education	Spanish 2, Visual Arts Courses, Journalism I	Spanish 3, Journalism II Intro to Stats	Spanish 4, Yearbook, Business Elective
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<i>Careers Requiring an Associate's Degree:</i> Appliance Repairer CAD Technician Civil Engineer Drafter Electrical Engineering Tech Geologist Petroleum Engineer Taxidermist		<i>Careers Requiring a Bachelor's Degree:</i> Aerospace Engineer Agricultural Engineer Astronaut Biologist Biomedical Engineer Ecologist Geologist Mathematician	



Program of Study for Transportation, Distribution and Logistics Cluster

Grade	9	10	11	12
English	English 9	English 10	English 11	English 12 or KCC Comp 1 and Comp 2
Math	Per sequence	Per sequence	Per sequence	
Science	Conceptual Chemistry, Conceptual Physics, Earth Science, and Biology			Physics (if not already taken)
	Earth Science, Biology, Chemistry, and Physics			
Social Studies	Electives	World History	American History	American Government & Consumer Economics
Physical Education	Physical Education, Health I	Physical Education	Physical Education	Physical Education
Career and Technical Courses Specific to this Cluster	Intro to Agriculture	Any Agricultural or Industrial Tech Course	Automotive Technology Academy	
			KCC Academies	KCC Academies
Other Recommended Electives	Spanish 1	Spanish 2	Spanish 3	Spanish 4, Business Elective
Possible Careers and Recommended Post-Secondary Schooling Related to this Cluster	<i>Careers Requiring an Associate's Degree:</i> Air Traffic Controller Auto body Detailer Automotive Service Technician Civil Engineering Technician Industrial Machinery Mechanic Motorcycle Mechanic Pilot Transportation Inspector Truck Driver		<i>Careers Requiring a Bachelor's Degree:</i> GIS Specialist Logistics Specialist Operations Research Analyst Urban and Regional Planner	

Agriculture

Course Offerings		
Prerequisite Course: Introduction to Agriculture, Food, and Natural Resources		
Principles of Plant Science Landscaping and Greenhouse Management Intro to Biotechnology	Principles of Animal Science Intro to Biotechnology	Agribusiness Management Intro to Biotechnology Agricultural Leadership
Kirkwood Community College Offerings: Online Kirkwood Classes Kirkwood Regional Center Academy		

Introduction to Agriculture, Food, and Natural Resources (CASE) – 422

Grades: 9-12

Credits: 2.0

Semesters: 2

Students participating in the *Introduction to Agriculture, Food, and Natural Resources* course will experience exciting “hands-on” activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, and natural resources. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. In addition, students will understand specific connections between their lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

Principles of Plant Science (CASE) – 424

Grades: 10-12

Credits: 2.0

Semesters: 2

This course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in plant science so that students may continue through a sequence of courses through high school. Students will work in teams, exploring hands-on projects and activities, to learn the characteristics of plant science and work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers and producers, and plant research specialists face in their respective careers. This knowledge and skills will be used in future courses within the CASE™ program. In addition, students will understand specific connections between the Plant Science lessons and Supervised Agricultural Experience, FFA, and LifeKnowledge components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

Principles of Animal Science (CASE) – 426

Grades: 11-12

Credits: 2.0

Semesters: 2

This course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in animal science so that students may continue through a sequence of courses through high school. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers. The knowledge and skills students develop will be used in future courses within the CASE™ program. In addition, students will understand specific connections between the Animal Science lessons and Supervised Agricultural Experience, FFA, and LifeKnowledge® components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

Landscaping and Greenhouse Management – 374**Grades: 10-12****Credits: 1.0****Semesters: 1**

In this course, students will have the opportunity to learn how to effectively manage a greenhouse. Students will be responsible for ordering, propagating, advertising, and selling plants of all varieties in the school greenhouse. Students will also have the opportunity to explore the Landscaping industry, and will be responsible for the Landscaping Projects for the school grounds. Topics to be covered in class include but are not limited to: Greenhouse Crop Production, Interior Plantscaping, Nursery Production, Residential Landscape Design, Landscape Installation, Gaining Employment, Marketing Horticultural Products. *Prerequisite: Introduction to Agriculture*

Introduction to Biotechnology in Agriculture – 168**Grades: 11-12****Credits: 2.0****Semesters: 2**

This course will include students to the developing world of Biotechnology as it applies to Agriculture. Topics covered in this course include but are not limited to: Historical Development of Biotechnology, Molecular Biotechnology, Genetics/Hereditry, Biofuels, Cloning, Genetically Modified Organisms (GMOs), GMOs and Food Labeling, Bioethics, and Careers in Biotechnology. *Prerequisite: Introduction to Agriculture, Biology*

Agribusiness Management – 155**Grades: 11-12****Credits: 1.0****Semesters: 1**

This course will teach basic business management skills for today's farmer and agricultural businessman/woman. Students will also get some practical hands-on experience managing a simulated farm. Time will also be spent on Ag sales and job skills. Topics to be covered include but are not limited to: Budgeting, Record Keeping, Financial Analysis, Marketing, Employability in the Ag Business Field, and Career Opportunities. *Prerequisite: Introduction to Agriculture*

Agricultural Leadership- 889**Grades: 11-12****Credits: 1.0****Semesters: 1**

This course is intended to build leadership skills, personal development, personal growth, and career success. Topics covered are FFA degree earning, job interview, resume building, parliamentary procedure, goal setting, and leadership development.

Prerequisite: Intro to Agriculture

Art

Course Offerings		
Grade 9	Grade 10	Grade 11-12
Basic Drawing & Pastel Found Art & Sculpture Painting	Grade 9 offerings and: Digital Photography	Grade 9-10 offerings Advanced Art Studio Tech Theater
Kirkwood Community College Offerings: Kirkwood Online Class Offerings		

Due to ONE-ON-ONE TEACHING/HELP. STUDIO ART CLASS ARE CAPPED. See specific numbers for each class. Upperclassmen will be put in first.

Basic Drawing & Pastel- 90a

Credits: 1.0

Grades: 9-12

Semesters: 1

Students will keep a sketchbook for the first quarter. 50 sketches will be included. Some will be specific teacher driven sketches, (intended to get the students ready for Chalk Pastel), the rest will be a student choice. The sketching is necessary to build drawing skills and for the students to develop “an eye” to really see the object, etc. The teacher will suggest changes, ways to improve the student’s skills. The sketchbook will be graded. Chalk Pastel will start with techniques as well as layout of the subject matter. Each student will create 4-5 assigned subjects. The final will be student choice, and MUST reflect chances taken with color and subject matter. It needs to be their BEST work. 20 students maximum THIS CLASS CANNOT BE REPEATED.

Found Art & Sculpture- 94a

Credits: 1.0

Grades: 9-12

Semesters: 1

This is an excellent class for those who say they cannot ART! Students learn to wrap their minds around the creative process. Students must be willing to learn, take chances, and to follow through with their creations; therefore, critical thinking is a MUST. All assignments will be created around a theme. Students will get their theme approved by Ms. McCarthy and turn in 2 sketches of their sculpture idea, then, the theme and sketches will be discussed and approved by Ms. McCarthy. Students will be creating a Big Box sculpture, an Abstract Wire sculpture, and a Toothpick sculpture, which will show movement, (possible identity sculpture and/or packing tape people, cross circular sculpture). All sculptures will be subjected to a oral critique from both Ms. McCarthy and the student’s classmates. The Final will be a wooden sculpture, which can be hung on a wall; the final will include collaborating with Mr. Robertson. This class is capped at 15 students maximum. THIS CLASS CANNOT BE REPEATED.

Painting – 98

Credits: 1.0

Grades: 9-12

Semesters: 1

Students will learn painting techniques for Watercolor, and Acrylic. Each student will produce 4-5 Watercolor paintings, and 4-5 Acrylic paintings. Techniques include layering, design, composition, texture, design elements, and color theory. Paintings will include both realistic and abstract painting, with the final being a realistic “Bob Ross” type of Acrylic. 20 students maximum. THIS CLASS CANNOT BE REPEATED.

Digital Photography - 432

Credits: 1.0

Grades: 10-12

Semesters: 1

Students will learn basic photography, including how to use a camera, how to take pictures with and without automatic settings. Students will be responsible for a Google slideshow, (subject to be determined by the teacher). Students will learn how to use an editing program. Students will upload their best pictures to a Web Site, which will be published and viewed by the public. This serves as their Digital Photography Portfolio. A possible final assignment may be cross-curricular. Weather permitting; one field trip per semester is possible. Do to a limited number of cameras, this class is capped at 20 students maximum. THIS CLASS CANNOT BE REPEATED

Advanced Studio Art - 34

Credits: 1.0

Grades: 11-12

Semesters: 1

In order for a student to take Advanced Studio Art the following requirements must be met: written permission from Ms. McCarthy. Students must be a junior or senior (who is planning on a career in Art or intends to study art post secondary). Students must have an E or S in the following basic art classes: drawing & pastel, painting, sculpture and photography). Underclassmen will be accepted only under special circumstances: exceptional maturity and responsibility, unique skills, able to work independently, critical thinking, strong task initiation and the ability to self-pace in order to complete the required assignments. An online portfolio will be the final projects and required art pieces need to be included. Incomplete portfolios will result in a failing grade. STUDENTS MAY REPEAT ADVANCED STUDIO, IN ORDER TO ADD TO THEIR PORTFOLIOS, DURING THE SCHEDULED ADVANCED ART CLASS SECTION, OR THEY MAY COME IN DURING A ONE OF THEIR FREE PERIODS. PERMISSION TO REPEATS IS NEEDED FROM MS. MCCARTHY. 10 Students maximum.

Dramatic Arts

Acting 1 - 404

Credits: 1.0

Grades: 9-12

Semesters: 1

NOTE: memorization is a must for acting class!

Maximum amount of students in the class 12-16. Acting class teaches confidence, poise and dedication. Acting class is for beginning, as well as seasoned actors. Students will be participating in "acting games," which include trust games, concentration games, improvisational situations, and memory games. Students will learn how to analyze, develop, and immerse themselves into a character. They will learn how to project their voice on stage, without the benefit of a microphone. Students will learn proper gestures, follow-through of actions/motivations, and the correct facial expressions for their character. Students will learn how to handle and manage stage props. Students will learn stage directions, as well as how to enter and exit a set, how to turn 3/4 th out to the audience, (in other words how to move on stage). Students will learn when it is appropriate to break the 4 th wall, (this concept will be explained in class). Students will learn how to memorize a script/dialogue and; movement as this is a MUST for acting, there will be no exceptions Duos and monologues MUST BE memorized. Students will perform acting duos, interpretive readings, pantomime set to music, and monologues. Students will learn how to audition for a production. How to make themselves stand out in the audition process. Students will rehearse and perform a skit, or script for both the elementary school and middle school! (Yes, it will be memorized). THIS CLASS CANNOT BE REPEATED.

Technical Theatre- 9

Credits: 1.0

Grades: 10-12

Semesters: 1

Students will be learning how to draw a ground plan. They will learn about what goes into a set design, light design and costume design plot. Students will learn sound, lighting, and stage-managing. Students will learn about color usage for the stage, (for sets, lights, costumes and make-up). Students will learn scene painting and set building, and set dressing. . Students will build and paint the set for the spring play and add set dressing. Students will be shown proper usage of power tools, including table saws, circular saws and chop saws. Students will pass a safety test before handling any saws. Technical Theatre students will run the back stage during performances, (the backstage crew is picked by Mrs. McCarthy's stage manager). Students sign up for: Props and Costumes, assisting the adult in charge of this department. A student, or students will design tickets, posters and programs, as well as actor and crew shirts. Students will sign up for poster distribution, running lines with actors, script followers during rehearsal, hair and make-up, (commitment needed every day during technical theatre week). In order for a student to take Tech Theatre the following requirements must be met: permission from Ms. McCarthy. They must be a sophomore or above. Exception to the 10th grade rule: (Construction background and maturity). Students need to be able to work nights and weekends, (if need be), and stay out past 11:00 PM. A student will NOT pass if they do not stay after the final performance (Sunday) to help take down the set, store the lumber, put costumes & tools away and clean the stage.(as this is part of their FINAL). THIS CLASS CAN ONLY BE REPEATED WITH WRITTEN PERMISSION FROM MS. MCCARTHY. Maximum amount of students in the class 12-16

Business

Course Offerings	
9 th and 10 th Grade	11 th and 12 th Grade
Business and Education Technology, Accounting, Entrepreneurship, Principles of Marketing, Yearbook	Freshman/Sophomore Electives, Workforce Essentials; Internship/Work-Based Learning REAL
College Offerings: Kirkwood Regional Center Academies PSEOs	

Accounting- 173, 180
Credits: 2.0

Grades: 9-12
Semesters: 2

Accounting I will give students a solid foundation to build their accounting knowledge upon. Every college business major will be required to take accounting and many jobs require accounting skills. Debits, credits, journals, the accounting cycle, balance sheets and more will be introduced and practiced. Students naturally learn organizational skills, the importance of deadlines, and how to produce high-quality work as they practice accounting. Students will begin to understand the extensive behind-the-scenes work every business does to keep its finances in order.

Business and Technology Education- 179
Credits: 1.0

Grades: 9-12
Semesters: 1

Business and Education Technology is a course that ensures that students can leverage their use of technology to improve their learning in school and their effectiveness in the workplace. Students will learn ways to better use Google Docs while creating properly formatted business documents. Students will learn Sheets- entering data, creating simple formulas, charts, and graphs. Students will create straightforward Forms, better Presentations, and a Site. Students will also learn how to better use Google search, Gmail, Google Calendar, and more- all while improving their keyboarding skills. This class will save students time and frustration on schoolwork while making them look more polished and professional than ever.

Entrepreneurship- 181
Credits: 1.0

Grades: 9-12
Semesters: 1

In *Entrepreneurship*, students engage in project based learning by creating a realistic business plan as if they were opening a business of their choice. Students will examine their interests, study the market, understand forms of ownership, weigh the benefits and drawbacks of locations, find out how to procure a product or provide a service, decide on pricing, learn how to hire a staff, create a marketing plan, deal with financing, investigate types of insurance and more. At the end of the course students present their business plan "Shark Tank style" to evaluate if they'd really have a shot at getting the financing they would need to follow their dreams of being a business owner.

Principles of Sales and Marketing- 182
Credits: 1.0

Grades: 9-12
Semesters: 1

Principles of Sales and Marketing teaches students about the importance of the sales and marketing function to the success of a business and also the impact sales and marketing has on them as a consumer. Students will engage in project based learning to discover how to do market research, how marketers make products appealing, the different forms of advertising, and how sales managers implement specific sales techniques that capitalize on good marketing in order to make sales. Ethical and legal issues surrounding sales and marketing techniques, especially in regards to controversial products, will be discussed as well.

Advanced Business and Education Technology- 177**Grades 10-12****Credits: 1.0****Semesters: 1**

Advanced Business and Education Technology is a course that gives students the advanced technology skills they need to do complex school work and work. Students will take a project based learning approach as they act as small business owners. They will learn advanced ways to format Google Docs, use advanced formulas in Sheets, develop detailed Forms and analyze the results, create highly professional Presentations, and use Google Web Designer in order to make their business run efficiently and stand out from the rest. Students will also learn how to fully utilize Gmail and integrate the use of advanced features in Google Calendar, as well as use other websites and apps to enhance the workflow of their business. Upon mastering current technology available to run their businesses, the course will end with a student-led study of where future technology may take businesses of the future.

Yearbook – 12a, 16**Grades: 9-12****Credits: 2.0 (may be repeated)****Semesters: 2**

This is a deadline-oriented laboratory class responsible for publishing the yearbook and is run like a publishing business. Students will gain writing, photography, layout and design, advertising and oral communication skills. Students will write stories for spreads and turn in photos on a weekly basis. Out of class time will be required for production, photography, sales, and fundraising. Students enrolling in Yearbook are expected to make a full year commitment. Any schedule changes must be approved by the teacher and administration. *Prerequisite: Digital Photography, Instructor Approval, and recommendation from staff member*

REAL: Research, Entrepreneurship, and Applied Learning- 909, 910**Grades: 11-12****Credits: 2.0****Semesters: 2**

Students work with community partners to engage in authentic entrepreneurship or research projects. These projects center around innovative business models and/or STEM based projects tackling real-world problems. Project management skills are supported through the use of the University of Iowa's Biz and STEM Innovator tool-kits. Through Biz and STEM Innovator students also have the opportunity to gain up to 6 college credits through the University of Iowa in both of the Colleges of Business and Engineering.

Workforce Essentials - 237**Grades: 11-12****Credits: 1.0****Semesters: 1**

Workforce Essentials is a one-credit course that provides students with academic and occupational skills that are transferable across jobs and occupational areas. Emphasis is placed on academic foundations for careers, applied technology, career development and employment, entrepreneurship and business economics, social and ethical responsibility, leadership, and teamwork, safety and health, and technical knowledge and skills. Students build on prior knowledge, strengths, interests, and needs that enhance preparation for future employment and continuing education and training. Students in the Workforce Essentials course will be provided with the opportunity to evaluate and develop a career plan and prepare/update a career employment portfolio. Students enrolled and successfully complete the Workforce Essentials course will be eligible to enroll in Internship/Work-Based Learning courses.

Internship/Work-Based Learning - 501**Grades: 11-12****Credits: 1.0****Semesters: 1**

Internship/Work-Based Learning is a structured component of the Career and Technical Education (CTE) curriculum that integrates classroom instruction with productive, progressive, supervised, work-based experiences/apprenticeships (Paid) and internships (Unpaid), related to students' career objectives. Content is planned for students through a cooperative arrangement between the school and employer as a component of work-based learning.

Internships/Work-Based Learning are available for any student in grades 11-12. Students are required to complete 65 hours of on-the-job training during the term. Students will also have three scheduled meetings with Workplace Learning Connection staff or West Branch High School MOC/WBL coordinator throughout the term to discuss progress, concerns, areas for improvement, and to share success stories. Students are required to complete internship notebook that logs the hours for the term and get it signed by their supervisor. Internships are typically taken during period 1 (beginning of the day) or 8 (end of the day). Students can work weekends or more than two hours per day, and are responsible for working out their schedule with their supervisor. Internships are treated just like a job and are taken instead of a class in most cases. Students are expected to dress accordingly, communicate daily with supervisors, do what they are asked to do, and complete the 65 hours within the semester.

Health and Physical Education

Health I - 139 (REQUIRED)

Grades: 9

Credits: 1.0

Semesters: 1

Health is required to graduate from WBHS. Health I will cover topics in Nutrition, CPR, First Aid, Drug and Alcohol Abuse, Relationships, Violence, Sexual Reproduction, Pregnancy and Birth, and Stress Management.

Health II - 138

Grades: 9-12

Credits: 1.0

Semesters: 1

This elective health course covers additional topics not taught in Health I as well as more in-depth study of Health I topics.

Physical Education - 144, 132a

Grades: 9-12

Credits: 0.50 per semester, offered every other day opposite study hall To be taken each semester

PE is required each semester a student is enrolled in school. Students may waive PE if and only if they meet the waiver requirements as indicated on page 6 of this course catalog. Class will include activities in team sports, personal fitness, individual skills, lifelong activities and fitness testing. These components strive to provide every student with a wide variety of physical activities and skills that will contribute to the development of their physical, cognitive and healthy wellness state. Altogether, students will be introduced to many expressions of fitness so they can find what works for them personally and their lifestyles, as PE is a lifelong activity. PE will be graded, credit will be granted, and the grades will count in GPA calculations.

Leadership and Adventure - 959

Grades: 10-12

Credits: 1.0

Semesters: 1

This course will cover two areas: leadership skills and outdoor (hands on) skills. Leadership topics will cover goal setting, teaching/learning styles, decision-making, problem solving, conflict resolution, risk management and group dynamics. The adventure side will focus on outdoor skills needed to teach and lead groups in workshops or day to multi-day trips. Outdoor skills will include trip planning, backpacking, outdoor cooking, climbing, canoeing/kayaking, CPR/WFA, navigation, budgeting, equipment purchase/maintenance and more. There will be off campus trips that include one required weekend outing along with several ½ day field trips during the year. Prerequisites for the class include completion of at least one PE credit and in grades 10-12. Grades 11 and 12 will get preference.

Industrial Technology

Course Offerings
<u>Grades 9-10</u> Introduction to ACE Basic Drafting Architectural Modeling Construction Technology Construction Material Processing
<u>Grades 11-12</u> Advanced Technology Advanced Material Processing Residential Construction Kirkwood Regional Center Academies

Introduction to ACE (Architecture, Construction, and Engineering) Careers – 191 **Grades: 9-12**
Credits: 1.0 **Semesters: 1**

Students will sample many areas included in the Architecture and Construction career cluster through classroom discussion, hands-on lab work with many demonstrations. General safety practices in the ACE lab will be a high priority while learning the proper methods of using hand and machine equipment. Learning the engineering procedure's while working on small projects like a wall unit, Co2 car unit, and a required project. Discussion on Career possibilities in the Industrial Technology cluster will be explored.

Basic Drafting - (Intermediate) **Grades: 9-12**
Credits: 1.0 **Semesters: 1**

The intermediate main course objective is to tie the skills of the Industrial Technologies of woodworking, Architectural design and mechanical engineering to the Architectural and Engineering worlds. This class with the foundation of the balance of technology-base classes will provide each student with the ability to go on to a construction or basic drafting position. It will also give a solid background to any student that is planning on going on to a college program involving drafting and general design. Not only will the student have the ability to draft by hand, but if a student on to CAD drafting class will also be introduced to the program of google sketch up.

Architectural Modeling - House plans 198a **Grades:9-12**
Credits: 1.0 **Semesters: 2**

The 1st Semester will be covering the basics of hand drafting techniques of Architectural drawings of the residential construction. The 2nd semester we will be working on blueprints of the house plans. These plans will be used for building the residential structure of a house of your choice in Residential Construction class.

Construction Material Processing – 194 **Grades: 9-12**
Credits: 1.0 **Semesters: 1**

This course introduces the basic woodworking skills of small woodworking projects. Students will be able to select their own individualized woodworking lab project, which is 85% of the class. Students will learn how to design, complete a procedure list, and figure the costs of the project. Students will use hand tools and machines to construct such projects as a cedar chest, nightstand, CD case, stereo cabinet, etc. Students may want to restore and refinish older furniture in lab class.

Advanced Material Processing – 206 **Grades: 9-12**
Credits: 1.0 **Semesters: 1**

Students will build off of the Introduction to material processing class and will be doing a much higher skill level of woodworking projects and curriculum work. The projects will challenge students to gain a better understanding of the hand tools and machines. Preparing them for the world of work in the trades industry and be more employable.

Construction Technology- 529**Grades 9-12****Credits: 1.0****Semesters: 1**

Introduction to Construction Technology 1 course will give all students the workplace skills and knowledge associated with employability career skills in the area of Construction. The class will cover basic project planning with hands-on-activities in the field of construction. Students will be engaged in constructing a small building while learning the safety concepts of building construction.

Advanced Technology - Welding and Small Gas**Grades 11-12****Credits: 1.0****Semesters: 1**

The Advanced Technology class will teach students the concepts skills of the different welding and small gas engines. Introduce the skills of stick welding, wire welding, brazing, fusion welding. Aluminum welding could be taught if we are on schedule. We will also disassemble and assemble a new small gasoline engine. All wrenches and hand tools will be used in this activity. great class for understanding the principles of an engine. Examples: piston rings, carburetor, fuel system, connecting rods, crank and overhead valve system.

Residential Construction - Estimate, Model House, Careers 197a**Grades:10-12****Credits: 2.0****Semesters: 2**

The advanced course will give the students a first hand experience to see what the field of residential construction offers. Students are given the chance to continue learning about traditional and modern forms of the Carpentry trade and the career opportunities found in the footings and foundations. As well as the corresponding trades that work with the building of a house. (i.e. architectural, masonry, electrical, and HVAC, and landscaping). Home maintenance activities will be included such as Sheetrock, mudding, plumbing, setting a stool, sink, vent pipe, tiling, electrical house wiring and careers in the trades.

Language Arts

Course Offerings				
	Grade 9	Grade 10	Grade 11	Grade 12
R E Q U I R E D	English 9	English 10	English 11	Choice of: English 12 Composition I and II
E L E C T I V E S	Journalism I/II Communication		Grade 9-10 Offerings and: Creative Writing Fundamentals of Oral Communication "Film and Literature"	
Courses Contracted with Kirkwood Community College for Concurrent Enrollment: Composition I and Composition II				

English 9 – 1**Credits: 2.0 (REQUIRED)****Grade: 9****Semesters: 2**

English 9 focuses on improving students' grammar and mechanics skills in order to help students develop and strengthen their writing through planning, proofreading, editing, and revising. Students also concentrate on reading comprehension skills, while building an appreciation for literacy and literature. They will get their first taste of Shakespeare through reading aloud *Romeo & Juliet* in class and explicating the language. Two other novels will also be incorporated into this year-long course.

English 10 – 2**Credits: 2.0 (REQUIRED)****Grade: 10****Semesters: 2**

English 10 focuses on higher order thinking skills, which includes analysis, synthesis, and comprehension. This will be done through the reading of classic literature, giving written/oral responses about the novels/plays that are read in class, and creating final computer-generated projects. Students will do extensive vocabulary work and review grammar and mechanics skills. Students will be introduced to proper MLA citation and how to avoid plagiarism, and a short MLA research paper can be expected.

English 11 – 3**Credits: 2.0 (REQUIRED)****Grade: 11****Semesters: 2**

English 11 focuses on strengthening learned skills in grammar and mechanics as well as improving vocabulary. Short stories and nonfiction articles are incorporated and analyzed. Students read and explicate Shakespeare's *Taming of the Shrew* as well as one or two selected novels. Students concentrate on developing their formal writing skills by writing a complex MLA research paper.

English 12 – 4**Credits: 2.0****Grade: 12****Semesters: 2**

English 12 prepares students for college and career readiness by ensuring grade-level performance of the following tasks and skills: writing routinely for a range of tasks, purposes, and audiences; applying knowledge of language in a variety of contexts and functions; and demonstrating command of vocabulary and the conventions of English grammar and mechanics. Students will be able to read and comprehend literary and non-fiction texts.

**Composition I – 360****Credits: 1.0 (Concurrent Enrollment Course, may take the place of English 12 S1)****Grade: 12****Semesters: 1**

A course focused specifically on reading and writing. It is devised to refine your communicative skills and your ability to produce insightful, well-organized argumentation and will give you an opportunity to practice these skills in a supportive environment. *Prerequisite: Senior Year Plus eligibility*

**Composition II – 318****Credits: 1.0 (Concurrent Enrollment Course, may take the place of English 12 S2)****Grade: 12****Semesters: 1**

The second half of the Composition sequence, this course's objectives include developing objectivity and accuracy in reading, researching interpreting, and documenting evidence; increasing ability to analyze and write syntheses and arguments; making discoveries through the process of writing; becoming part of a community of writers; using the computer to facilitate the research and writing process. *Prerequisite: Composition I and Senior Year Plus eligibility*

**Fundamentals of Oral Communication – 312****Credits: 1.0 (Concurrent Enrollment Course)****Grades: 11 12****Semesters: 1**

This ONLINE course is recommended for students enrolled in the Composition sequence. Successful completion of Composition I, Composition II, and Fundamentals of Oral Communication will transfer to The University of Iowa as the freshman rhetoric sequence as well as to most other colleges as required freshman English courses. Students electing to enroll in Fundamentals of Oral Communication online should be prepared to independently monitor their own progress in the course as it is a distance-learning course with a Kirkwood professor. The course studies basic communication theory and practice including communication process, interpersonal relationships, small group interaction and public speaking. *Prerequisite: Senior Year Plus eligibility*

Journalism I – 10a**Credits: 1.0****Grades: 9-12****Semesters: 1**

This course is open to 9-12 grade students who have an interest in journalism and possibly writing for the student newspaper, *The Bear*. It introduces students to the world of print media, photojournalism, and page design and serves as a prerequisite for Journalism II, newspaper production. Strong writing and organizational skills are encouraged as students will write a wide variety of articles, including news, feature, opinion, review, sports, etc. Headline and cutline writing will also be involved. Students will learn the inverted pyramid style of writing, AP style guides, a variety of photojournalism techniques, and solid page design skills. Students will write and take photos for possible inclusion in *The Bear*. ***Students who successfully pass Journalism I during 1st semester may choose to join Journalism II 2nd semester with instructor approval.** *Prerequisites: none.*

Journalism II – 11a, 32a**Credits: 2.0 (may be repeated)****Grades: 9-12****Semesters: 2**

Journalism II is a **deadline-oriented** class centering on the production of the school newspaper, **The Bear**, and is run like a newsroom. Students in this class may repeat it yearly and eventually become an editor-in-chief of the paper. Students will be required to go outside of class to sell advertising and communicate with business owners, create ads, and send/deliver invoices, etc. In general, all staff members will write several articles, take photos, and design pages for each of the 7 issues created during the school year, including the final, large, senior issue in May. *Prerequisites: Students must have successfully passed Journalism I OR have instructor approval before enrolling.*

Communication – 35**Credits: 1.0****Grades: 9-12****Semesters: 1**

This course is for those students (9-12) who want to improve their public speaking skills and become more comfortable presenting information in front of others. Students will learn proper speech delivery techniques and receive individual critiques. Students will create, organize, prepare, and deliver several different types of speeches, including, but not limited to personal, demonstrative, persuasive, informative, object, tribute, and commercial sales. Other possible speech categories that may be dealt with in class are storytelling, short story or poetry interpretation, and improv. *Prerequisites: none.*

Creative Writing – 6a**Credits: 1.0****Grades: 11-12****Semesters: 1**

This is an upper level (11-12) course for students who already have a strong grasp of grammar and mechanics skills and desire to write from a creative standpoint rather than write essays and research papers. **Students should enter this class with strong writing skills, a diverse vocabulary, and motivation to write independently.** Students will produce a variety of written works, some to be read aloud and discussed in a workshop-like atmosphere where constructive criticism will be shared by peers and the instructor. *Prerequisites: students must have passed all previous language arts classes with nothing less than the SBG of an “S”; instructor approval required as well.*

Film & Literature- 599**Credits: 1.0****Grades: 11-12****Semesters: 1**

This is an upper level (11-12) course for students who are interested in the comparison and contrast between written works and their dramatic, on-screen portrayals. Films are an easy way to get immersed in a story, but how often is it said, “The book is so much better than the movie”? Students will examine, in detail, the elements of stories as they are told through different media, while discussing the advantages and disadvantages of each. **Students are cautioned that this course requires extensive reading and writing in addition to viewing films as well as taking an active part in class discussions.* *Prerequisites: students must have passed all previous language arts classes; instructor approval required as well.*

Reading- 17**Credits: 1.0****Grades: 9-12****Semesters: 1**

This is a course for any students (9-12) who love to read as well as for those students who are reading below their grade levels and require improvement. This course mainly involves reading fiction and nonfiction books/articles independently; however, some materials are read aloud as a class in order to generate class discussions and further student understanding. Students are allowed to choose many of their own reading selections according to their tastes and upon teacher approval. Students are guided toward choices that are at and above their current reading levels. Reading is performed daily in class. Each student is responsible for keeping a daily, in class, reading journal for assessment. The reading journal explores the 11 major reading strategies: summarizing, generating questions, determining importance, monitoring understanding, predicting, visualizing, inferring, evaluating, synthesizing, activating schema, and drawing conclusions. **Prerequisites:** none.

Mathematics

Recommended Course Sequencing			
Grade 9 (required – based on placement)	Grade 10 (required – following sequencing)	Grade 11 (required – following sequencing)	Grade 12 (recommended)
Math 1	Algebra I	Geometry	Algebra II
Algebra I	Geometry	Algebra II	Statistics/Pre-Calculus
Geometry	Algebra II	Statistics/Pre-Calculus	AP Calculus

Math 1- 435, 436**Credits: 2.0****Based on placement****Semesters: 2**

The course is an integrated mathematics course that incorporates elements of algebra, geometry, trigonometry, and analysis throughout the yearlong course.

Algebra I – 40**Credits: 2.0****Based on placement****Semesters: 2**

The purpose of this course is to begin the study of algebra. The approach will be to use algebra to develop problem solving skills. Topics covered will be variables, equations, polynomials and applications, factoring polynomials, applying functions through mixture ratio, rationals and irrationals.

Geometry – 42**Credits: 2.0****Grades: 9-12****Semesters: 2**

This is the study of Euclidean geometry. Topics include points, lines, planes, angles, congruent and similar polygons, circles, deductive and inductive reasoning, right triangle trigonometry, constructions, area and volume. A scientific calculator is required. (May use a graphing calculator, TI84 is recommended.) *Prerequisite: Algebra I*

Algebra II – 43**Credits: 2.0****Grades: 10-12****Semesters: 2**

This course emphasizes discovering applications to real life problems through advanced math. Topics include linear and quadratic functions, variations, matrices, systems, powers, exponential and logarithmic functions, trigonometry and polynomials. **A graphing calculator is required.** (TI83 or TI84 silver edition is recommended.) *Prerequisite: Geometry*

Statistics - 831**Grades 11-12****Credits: 2.0****Semesters: 2**

This course will examine data collection practices for samples of a population. This course will explore probability and its application in statistical relationships. This course will analyze data through a variety of descriptive techniques and display data shape, center, and spread graphically, numerically, and in written form. This course will introduce techniques in inferential statistics. This course will introduce techniques in regression and correlation of data sets. This course will conclude with basic hypothesis testing. Statistical understanding will benefit every field of study. *Prerequisite: Algebra II*

Pre-Calculus 1 & 2 – 53, 54**Grades: 11-12****Credits: 2.0****Semesters: 2**

The pre-calculus course contains functions, relations, vectors and polar systems, analytic trigonometry, properties of conic sections, and systems of equations and inequalities. **A graphing calculator is required.** (TI83 or TI84 silver edition is recommended.) *Prerequisite: Algebra II*

AP Calculus – 57, 58**Grades: 11-12****Credits: 2.0****Semesters: 2**

This course will include the study of limits and continuity, derivatives, definite and indefinite integrals, modeling, applications. The class will include parts with no calculator and parts that require a calculator. (TI84 silver edition is recommended.) *Prerequisite: Pre-Calculus 1 & 2*

Music**Band – 110, 112****Grades: 9-12****Credits: 2.0 (may be repeated)****Semesters: 2**

Band offers experience and instruction in musical styles, performance, listening, and appreciation. The year begins with Marching Band, an important part of the band that encourages team building skills and positive group dynamics. Concert Band follows with several performances during the year. Each student is given a lesson on his/her instrument on a regular basis.

Jazz Band I – 111**Grades: 9-12****Credits: 1.0 (may be repeated)****Semesters: 2**

Students must be in concert band to audition for jazz band. Jazz band meets second and third quarter during early bird (7:30-8:10). The jazz band performs at several community events, competes in three jazz festivals in the spring, and performs at the swing show in the spring. *Prerequisite: Must be a member of concert band and must pass an audition.*

Choir – 376, 378**Grades: 9-12****Credits: 1.0 (may be repeated)****Semesters: 2**

Membership in this course is open to all high school students interested in performing choral literature, without audition. This ensemble focuses on vocal and performance techniques; tone production, music reading skills and choir blend/balance. Students are exposed to a variety of choral literature from beginning to advanced high school level. Choir meets on A days opposite Show Choir during 4th period. Annual performances will include, but not limited to, the December Vocal Music Concert, May Vocal Music Concert, and State Large Group Festival in May. Students may also participate in additional vocal music opportunities such as All-State, Opus Honor Choir, RVC Honor Choir, ISU Honor Choir, Solo/Small Ensemble Festival, and local community events.

Show Choir – 121, 123**Grades: 9-12****Credits: 1.0 (may be repeated)****Semesters: 2**

This show choir, “Christopher Jive and the Uptown 45”, provides students with opportunities for creative expression with emphasis on advanced-level vocal production, choreography and performance skills. Annual performances will include, but not limited to, the December Vocal Music Concert, 5-6 show choir competitions, State Show Choir Festival, the Swing Show in March, performances at community events, as well as hosting our own show choir competition, “Saturday Night Jive”, in January.

Show Choir Band- 124**Credits: 1.5 (may be repeated)****Grades: 9-12****Quarters: 1-3**

The show choir band is a vital component of the show choir program. This instrumental ensemble provides the accompaniment to both varsity and jv show choirs.

Honors Music Theory – 122**Credits: 2.0****Grades: 9-12****Semesters: 2**

This two semester college-level class is designed to prepare students for the Advanced Placement Exam in Music Theory. It is intended for students with a strong interest in and an aptitude for music. Students develop skills and a deeper understanding of music theory, sight-singing, melodic and harmonic dictation, musical form, and composition.

Project Lead The Way – Engineering Curriculum

West Branch High School is pleased to offer courses in Project Lead The Way. These courses are offered as concurrent enrollment courses and focus on Science, Technology, Engineering, and Mathematics concepts. Note that a few programs may be available on campus while others are only available at the University of Iowa.

Course Offerings	
Grades 9-10	Grades 11-12
Introduction of Engineering Design (IED) Principles of Engineering (POE) Computer Science and Software Engineering (CSE)	Computer Science and Software Engineering (CSE) Academies at KCC Regional Center

**Introduction to Engineering Design (IED)- 409, 408****Credits: 2.0 (Concurrent Enrollment Course Offered Every Other Year)****Grades: 9-12****Semesters: 2**

This year-long course uses a design development process while enriching problem-solving skills; students create and analyze models using specialized computer software. *Students must be currently enrolled in Algebra I or beyond for this course; will be offered at WBHS.*

**Principles of Engineering (POE)- 407, 440****Credits: 2.0 (Concurrent Enrollment Course Offered Every Other Year)****Grades: 9-12****Semesters: 2**

This year-long course explores technology systems and manufacturing processes; addresses the social and political consequences of technological change. *Prerequisite: Algebra I, and current enrollment in a college-prep math course (Geometry or higher).*

**Computer Science Principles (CSP)- 852, 853****Credits: 2.0****Grades 10-12****Semesters: 2**

Open doors in any career with computer science! In CSE, students create apps for mobile devices, automate tasks in a variety of languages, and find patterns in data. Students collaborate to create and present solutions that can improve people's lives, and weigh the ethical and societal issues of how computing and connectivity are changing the world.

Science

Recommended Course Sequencing	
Required Curriculum	Elective Suggestions
Conceptual Chemistry and Conceptual Physics and Earth Science and Biology <i>and</i> one elective credit	Principles of Biomedical Sciences Physics Astronomy
Earth Science Biology <i>and</i> Chemistry <i>and</i> one elective credit	Advanced Biology AP Chemistry Principles of Biomedical Sciences Robotics

Students must complete three years (6 credits) of high school science to meet both the state of Iowa and WBHS graduation requirements. Students must enroll in a Physical Science coursework as well as Biological Science coursework to satisfy Iowa Core Curriculum requirements. This may be met by taking Conceptual Chemistry, Conceptual Physics, Earth Science, Biology, and an elective credit OR , Earth Science, Biology, Chemistry, and an elective credit. Students will be placed according to testing scores, standard marks, and teacher recommendations.

Astronomy – 377 **Credits: 1.0**

Grades: 9-12
Semesters: 1

Astronomy integrates traditional astronomy topics, new astrophysics, and the history of astronomy to allow students to better understand the nature of astronomical phenomena. The course will cover four main topic areas including astronomical scale and structure, the history of astronomy, the connections between astronomy and physics, and the history of the universe. Using both qualitative and quantitative descriptions this course will also provide opportunities for students to investigate topics of interest, to conduct experiments, and to develop critical thinking and communication skills. Some of the specific concepts covered may include star mapping and constellations, astronomical measurement, astronomy on Earth, telescope design and use, Newton's and Kepler's laws, the life cycle of stars, the Big Bang model, the nature of light and energy, and the theories of relativity.

Biology – 61 (Required) **Credits: 2.0**

Grades: 9-12
Semesters: 2

Biology, the study of life's processes, structures, systems, and relationships, is designed to develop student's understanding of the world of living things and of themselves. The course uses discussion, note-taking, laboratory experiences, short term and long term assignments. *This course covers Biological Science Requirements.*

Earth Science – 441 (Required) **Credits: 1.0**

Grades: 9-12
Semesters: 1

Throughout the duration of this course you shall explore and investigate the Earth's processes. You will make observations of the world around you and analyze how the pieces of the environment fit together to sustain life. We will evaluate the organic and inorganic aspects of the planet and learn about how both are important in creating a habitable planet. This course will be one semester long and upon successful completion you will earn one science credit.

Conceptual Physics – 403 **Credits: 1.0**

Grades: 9-12
Semesters: 1

Conceptual Physics introduces students to simple mechanics, concepts of energy and work, and ideas from modern physics to better describe the world and nonliving matter. The courses emphasize basic measurement and descriptive analysis of experimental results. Topics covered may include energy, motion, forces, electricity, magnetism, heat, light, and applications of physics in everyday life.

Conceptual Chemistry – 533**Credits: 1.0****Grades: 9-12****Semesters: 1**

Conceptual Chemistry introduces students to the characteristic properties of materials, the structure and nature of matter, the basics of chemical reactions, and the fundamentals of lab work. The courses emphasize basic measurement and descriptive analysis of experimental results. Topics covered may include the metric system, the nature and structure of atoms, chemical bonding, acids and bases, the periodic table, nuclear processes, and applications of chemistry in everyday life.

Chemistry – 63**Credits: 2.0****Grades: 10-12****Semesters: 2**

This course is a year-long course that teaches students the structure of an atom, chemical bonding (the kinds and how and why it occurs), the periodic table and periodic trends, and how and why elements/compounds react. All of this is demonstrated with experiments and is based on problem solving and critical thinking. *Prerequisites: Algebra I and Biology. This course meets the Physical Science requirement in conjunction with Physics Honors.*

Physics Honors – 65**Credits: 2.0****Grades: 10-12****Semesters: 2**

This course will help students to understand how and why things interact around us by studying the forces affecting them. The student will learn wave properties and apply this knowledge to light and sound waves. Students will study electricity and magnetism and how they are related to each other. All phenomena will be studied in the lab using hands-on activities with problem solving and critical thinking. This course will count as a math credit for college entrance since it is a math-based course. *Prerequisite: Algebra I, Geometry, and Biology. This course meets the Physical Science requirement in conjunction with Chemistry I.*

Principles of Biomedical Sciences (PBS) – 518, 527**Credits: 2.0****Grades: 9-12****Semesters: 2**

This is a Project Lead the Way for Biomedical Science course. Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. **You could qualify for University of Iowa credit by scoring high enough on the final exam.**

Advanced Biology – 62**Credits: 2.0****Grades: 12 (11 with permission)****Semesters: 2**

Advanced Biology is geared for the student thinking about a career in a science field. Students will study a wide range of topics and cover such things as biotechnology, immunology, botany, etc. The course will be based upon note-taking, discussions, labs, activities, and various assignments. *Prerequisites: Biology with a B or higher and Chemistry (or concurrent) passed/passing.*

Advanced Placement (AP) Chemistry II – 64**Credits: 2.0****Grades: 12****Semesters: 2**

This course is designed as a continuation of first year chemistry. It will cover solutions, acids/bases and pH equilibrium and organic chemistry. It is a laboratory science with lots of hands-on activities based on problem solving and critical thinking. This AP course covers a year's worth of college content and the AP test, if passed, will test students out of 6 to 8 credits in Chemistry at the college level (see individual colleges for specific equivalencies). *Prerequisite: Chemistry I and Biology.*

Social Studies

Recommended Course Sequencing				
	Grade 9	Grade 10	Grade 11	Grade 12
R E Q U I R E D		World History	<i>American History</i> or US History to 1877 US History since 1877	American Government or KCC American National Government AND Consumer Economics or KCC Personal Finance
E L E C T I V E	The Sixties Women's History Sociology Psychology		The Sixties Women's History Sociology Psychology	
Courses Articulated with Kirkwood Community College for Dual Credit: PSEOs				

American History – 22

Grade: 11

Credits: 2.0 (Required)

Semesters: 2

American History investigates the causes and effects of social, political, economic, and military events throughout United States history. This course assists students in understanding the past and present struggles and successes of the nation and society we are a part of. Assessments will include both tests and projects and will focus on the student's ability to analyze, explain, and construct something creative with the information covered during class.

World History- 801 and 802

Grade: 10

Credits: 2.0 (Required)

Semesters: 2

Students will analyze primary and secondary sources of information to learn about individuals and cultures throughout the world, from ancient to modern times. The course will focus on systems of belief, power structures, the impact of technology, and international relations.

American Government – 23

Grades: 11-12

Credits: 1.0 (Required)

Semesters: 1

This course explores the form and function of government in the United States at the national, state, and local level. Students will learn about democratic principles and values, and the role they play in our system. Civic engagement will be a priority topic.

Prerequisite: American History

Consumer Economics- 48

Grades 11-12

Credits: 1.0

Semesters: 1

Consumer Economics gives students the knowledge and decision-making skills they need to successfully plan and prepare for their future. Important topics such as evaluating student loan options, constructing a resume, how to manage a checking account, how to complete federal and state income tax forms, and how to save for short-term and long-term goals will be covered. Students will engage in project-based learning to produce comprehensive assessments that mirror real-world application.

**Personal Finance - 121****Credits: 1.0 (Alt. Concurrent Enrollment Course, may replace Consumer Economics)**

Provides a comprehensive examination of the concepts and principles of personal finance and offers solid strategies for successful management and planning. Students will learn planning, analyzing and controlling financial resources and developing the knowledge and skills necessary to take advantage of favorable financial opportunities, resolve financial problems, achieve self-satisfactions and strive towards financial security.

**US History to 1877 - 277****Grades: 11-12****Credits: 1.0 (Alt. Concurrent Enrollment Course, may replace American History)****Semesters: 1**

Studies the European background, the colonial experience, the revolutionary period and 19th century history to the Civil War. Includes political, economic and social history of this period as well as the development of American thought.

Prerequisite: Senior Year Plus eligibility

**US History since 1877 - 386****Grades: 11-12****Credits: 1.0 (Alt. Concurrent Enrollment Course, may replace American History)****Semesters: 1**

Studies include the period from reconstruction to the present. Emphasis is upon industrialization and its impact, the development of a strong federal government, an aggressive foreign policy, and a growing involvement in an international economy. *Prerequisite: Senior Year Plus eligibility*

**American National Government - 285****Grades: 11-12****Credits: 1.0 (Alt. Concurrent Enrollment Course, may replace American Government)****Semesters: 1**

Studies American policy based on a close examination of the processes of decision-making. Emphasis is placed on voting behavior and citizen interaction within the system. *Prerequisite: Senior Year Plus eligibility*

The Sixties - 968**Grades: 9-12****Credits: 1.0****Semesters: 1**

Music, speeches, movies, and literature will be used to explore this tumultuous time in American history. Units of study will include the civil rights movement, the counterculture, and the Vietnam War.

Women's History- 519**Grades: 9-12****Credits: 1.0****Semesters: 1**

Students will learn how women have shaped and experienced historic events in the U.S. and around the world. Topics of study will range from Cleopatra to the role of women in Native American societies to contemporary reformers and world leaders.

Psychology - 521**Grades: 9-12****Credits: 1.0****Semesters: 1**

Psychology will introduce students to the study of individual human behavior. The course will involve students identifying everyday problems and actions they have observed or participated in and evaluate the underlying reasons for why they take place. Course content will include outlining an experiment, topics in human growth and development, personality and behavior, and psychological disorders and therapies.

Sociology - 25a**Grades: 9-12****Credits: 1.0****Semesters: 1**

Sociology will expose students to how people in society interact together to make society function. The course will involve students exploring the current problems in the media and connecting them to content covered in the course. Course content will include outlining an experiment, evaluating aspects of culture, analyzing economic inequality, exposure to topics of gender and sexuality, and assessing deviance in society.

Spanish

The study of a foreign language is not required for high school graduation. **Most community colleges do not require any foreign language study for admission. Many four-year colleges require at least two years of a foreign language for admission.** Most students whose major is in the liberal arts in college need to take two years of college level foreign language OR four years of high school language courses. See the counselor if you have additional questions about foreign language requirements for college.

Spanish 1 – 80

Credits: 2.0

Grades: 9-12

Semesters: 2

This is the entry-level course to the four-year sequence of language study. Students develop basic skills for reading and writing Spanish. They will develop a basic ability to understand written and spoken Spanish. They will also learn about cultures that speak Spanish. Assessments cover all four components of language (reading, writing, speaking, and listening).

Spanish 2 – 81

Credits: 2.0

Grades: 10-12

Semesters: 2

Spanish 2 is a continuation of Spanish 1. Students work to further their writing and speaking abilities along with their comprehension of written and spoken Spanish. Students continue to learn about Spanish speaking cultures. Assessments are written and oral. *Students must pass both semesters of Spanish 1 in order to take Spanish 2*

Spanish 3 – 82

Credits: 2.0

Grades: 11-12

Semesters: 2

Spanish 3 delves into the more complex grammatical issues of Spanish. Students will continue to improve their writing and speaking abilities as well as their reading and listening comprehension. Students will also explore a variety of cultural aspects related to the Spanish-speaking world. Assessments are written and oral and include both tests and projects. A Spanish language trip will be offered every other year for students who are enrolled in Spanish 3 or 4 at the time of the trip. *Students must pass both semesters of Spanish 2 in order to take Spanish 3. Indicator of Success: Grade of C or higher in Spanish 2.*

Spanish 4 – 83

Credits: 2.0

Grade: 12

Semesters: 2

In Spanish 4 students will continue to study the more complex grammatical issues of Spanish as well as review and refine skills taught in previous levels. In addition to working on writing, reading, and listening skills, students will have many more opportunities to practice their speaking skills through in-class conversations. Students will also explore a variety of cultural aspects related to the Spanish-speaking world. At the end of the year students will read a novella entirely in Spanish. Assessments are written and oral and include both tests and projects. A Spanish language trip will be offered every other year for students who are enrolled in Spanish 3 or 4 at the time of the trip. *Students must pass both semesters of Spanish 3 in order to take Spanish 4. Indicator or success: Grade of C or higher in Spanish 3.*

Counseling

College and Career Planning – 244

Credits: 0.25 per year completed; 1 credit total for graduation

Grades: 9-12

Online course

College and Career Planning is a required elective course for all students each year they are enrolled at WBHS. Each year, students earn 0.25 credits of College and Career Planning credit to total 1 credit after four years of participation. Career Planning will be administered in an online format utilizing Google Drive and the Google Classroom. Activities will include college and career-planning lessons from the *Roads to Success* curriculum sponsored by the Iowa Department of Education and will culminate each year with students' completion of the My Academic Planning Program developed by Iowa State University.

Practicum

Practicum in Education - 231

Grades: 11-12

Credits: 0 – may be counted toward Silver Cord Hours only

Semesters: 1 or 2

Practicum experiences will be counted for silver cord hours. The main office will pair students who register to be a practicum student with a teacher requesting a student. Students will be responsible for keeping track of their time worked. Practicum experiences are not counted toward total credits, and students must be on track to graduate in order to participate. *Prerequisite: Must be above minimum course load; preference given to seniors.*

Supplementary Instruction Courses

Resource – 232

Grades: 9-12

Credits: 2.0

Semesters: 2

Resource is a targeted intervention for students who have an Individualized Education Plan. The course serves to target specific academic goal areas as well as provide instruction in academic success skills.

Guided Studies- 885, 892

Grades: 9-12

Credits: 1.0 or 2.0

Semesters 1 or 2

Students will be enrolled in this course to get help in executive functioning skills and homework support. Students will be expected to complete an online class and check in with the teacher on a weekly basis.

Edgenuity

West Branch High School uses Edgenuity online courses for credit recovery. If you have taken a course and failed, you will have the option to take the course through Edgenuity to make up the credit. You will need to meet with the counseling office to be enrolled in the appropriate courses.

College Credit Courses - Checklist for Registration

Students signing up for college credit courses need to follow this checklist:

Student Name _____ Student Grade Level _____

College Courses Requesting:

- 1.
- 2.
- 3.
- 4.
- 5.

Was I proficient in ELA, Math, and Science on the ISASP this year?

- If you don't know, check with the counselor.

Have I applied to be a Kirkwood Student?

- If you haven't, go to www.kirkwood.edu/apply and click "College Credit in High School."
- You will need to include your social security number when you apply.

Have I taken the ACT and met the minimum requirements?

- English – 18
- Reading – 16

If I haven't taken the ACT, have I taken the Accuplacer tests and met the minimum requirements?

See next page for registration instructions.

Kirkwood Registration Process

Students – please read each scenario below to determine which applies to you. Then follow the instructions given.

I have a k-number & password, & I know both. Go to **Step 3**.

I don't remember my k-number and/or password, or I'm not sure if I have one. Go to **Step 2**.

I do not have a k-number & password (I've never applied to Kirkwood). Go to **Step 1**.

Step 1

- Apply to Kirkwood at www.kirkwood.edu/hscreditapply. You will receive a confirmation email shortly after submitting. (POTENTIALLY CHANGING)
- Within 24 hours, you will receive a second email containing a link to your welcome letter. This welcome letter will have your k-number. It's important you write this number down, as it is your Kirkwood ID number. (POTENTIALLY CHANGING)
- Next, you will need to activate your Kirkwood account at www.kirkwood.edu/password. This activates your k-number, establishes a password, & sets up your Kirkwood email.
- Once you have completed the activation process, go to **Step 3**.

Step 2

- For k-number, go to www.kirkwood.edu/knumber
 - Choose Forgot your k-number
 - Enter your name & email; if an error shows no record exists, go to **Step 3**.
 - Check your email for your k-number
 - Once you have both your k-number & password, go to Step 3
- For password issues, go to www.kirkwood.edu/password
 - Choose Establish or Forgot my password
 - Enter your k-number, name, birthdate.
 - Answer your security question (if you have one)
 - Create your new password
 - Once you have both your k-number & password, go to **Step 3**

Step 3

1. Go to www.kirkwood.dualenroll.com.
2. Login with your k-number & password.
3. Read & fill out initial entry screens.
4. Choose the correct location & semester.
5. Choose courses to register for.
6. Your counselor will have to approve your courses before you are registered into anything.

My Four-Year Program of Study

Available Periods	Grade 9		Grade 10		Grade 11		Grade 12	
1								
2								
3								
4								
5								
6								
7								
8								
Additional Courses I'd Like to Take if I Have Time								

