



Cedar Rapids
Community School District

Every Learner: Future Ready



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Graduation Requirements

Cedar Rapids Community School District students must earn a minimum of 40 credit hours in grades 9-12 to qualify for a diploma. One credit hour is earned for each semester course that meets for one class period daily. Two credit hours is the equivalent of a yearlong course. The credit hours required for graduation shall include the following minimum subject area requirements, per Iowa's [Graduation Requirements](#):

English Language Arts – 8 credit hours

Students must complete a minimum of eight credit hours of English Language Arts coursework during grades 9-12 as prescribed in the Cedar Rapids Community School District Program of Studies.

Mathematics – 6 credit hours

Students must complete a minimum of six credit hours of mathematics coursework during grades 9-12 as prescribed in the Cedar Rapids Community School District Program of Studies.

Science – 6 credit hours

Students must complete a minimum of six credit hours of science coursework during grades 9-12 as prescribed in the Cedar Rapids Community School District Program of Studies.

Social Studies – 6 credit hours

Students must complete a minimum of six credit hours of social studies coursework during grades 9-12 as prescribed in the Cedar Rapids Community School District Program of Studies.

Physical Education – 4 credit hours

Iowa Code requires all physically able students in grades 9-12 to participate in physical education each semester they are enrolled. Iowa Code 281-IAC 12.5(5)(f). Exceptions to this requirement follow Iowa Code 256.11(6) and District Regulation 400.7. CRCSD District Regulation 400.7

Currently the Cedar Rapids Community School District receives a Chapter 12 Waiver from the Iowa Department of Education which allows students to enroll in daily physical education for one semester instead of two semesters each school year. Students are also expected to participate in a CPR Course per Iowa Code 281-IAC 12.5(20).

Financial Literacy – One-half unit

Students must complete at least one-half unit of instruction in personal financial literacy as a condition of graduation. This one-half unit is embedded in the required Economics course as part of social studies coursework.

Elective Courses – 10 credit hours

Students must complete a minimum of ten credit hours of elective courses in grades 9-12

More detailed information about subject-specific graduation requirements is listed in each of those subject-specific sections in the Course Catalog.

Academic Guidelines

Satisfactory/Unsatisfactory Option

A student may choose ONE ELECTIVE COURSE PER YEAR (either a semester long or year-long course) to be graded on a Satisfactory/Unsatisfactory basis. The criteria applied to all courses taken as satisfactory/unsatisfactory is as follows:

- Written parental approval is required
- Satisfactory/Unsatisfactory requests must be made within 20 school days of the start of the semester.
- Students must complete all course expectations as if they were receiving a grade.
- Students may not take any course required to meet content area graduation requirements as Satisfactory/Unsatisfactory. (Exception: PE courses)
- Courses taken as Satisfactory/Unsatisfactory will not be computed for Academic Honors.
- Advanced Placement courses may not be taken as satisfactory/unsatisfactory.
- Driver Education may be taken as satisfactory/unsatisfactory without it counting towards a student's one Satisfactory/Unsatisfactory course.
- Courses that are taken as Satisfactory/Unsatisfactory will not be used to compute grade point and/or class rank.

Students must visit their School Counselor for the Satisfactory/Unsatisfactory – Request Form.

Attendance Policy

Attendance is critical to a student's success in high school and to their future. Please reference Student Attendance Policy 602 at this link [CRCS Policy](http://www.cr.k12.ia.us). (www.cr.k12.ia.us)

Dropping a Course

If a student requests to drop a course, the following criteria apply:

- Written parental approval is required.
- If the drop occurs between days 1-10 of the semester, there is no record of the course on the student's transcript.
- If the drop occurs between days 11-45 of the semester, there is a "W" for withdrawn on the student's transcript.
- If the drop occurs day 46 and beyond, the students receives a:
 - "W" if they are passing the course at the time of the drop
 - "F" if they are failing the course at the time of the drop

Dropping a Kirkwood Linn Regional Center Course

If a student is dropping a Kirkwood course, it is to be done within the first week of Kirkwood classes otherwise the student will receive a "W" on their Kirkwood transcript. If a student drops a course after the first week, they will receive the grade earned at that time.

Course Load Expectations

Students must select and enroll in both required and elective courses every year to make progress towards meeting graduation requirements. The minimum course load expectations are as follows:

- Five classes each semester and PE one semester in grades 9 and 10
- Four classes each semester and PE one semester in grades 11 and 12

Note: Course offerings are based on student request and student need. If there are not enough students interested in a particular course, it may not be offered.

Grade Point Calculation (GPA)

To encourage students to pursue a challenging learning experience, all courses providing students the opportunity to earn college-level credit will be calculated on a 5.0 grading scale. This includes all AP courses, world language courses that do not have an AP option, all Post-Secondary Enrollment Option (PSEO) courses, and all concurrent enrollment courses taken both at Kirkwood Community College and within CRCSD. These courses are identified in the CRCSD Program of Studies with a “W” for weighted course.

The scale for **weighted courses** is as follows:

The scale for **all other courses** is as follows:

A	5.00		A+	4.33
A-	4.67		A	4.00
B+	4.33		A-	3.67
B	4.00		B+	3.33
B-	3.67		B	3.00
C+	3.33		B-	2.67
C	3.00		C+	2.33
C-	2.67		C	2.00
D+	2.33		C-	1.67
D	2.00		D+	1.33
D-	1.67		D	1.00
F	0.00		D-	0.67
			F	0.00

Regents Admissions Index (RAI)

Students wishing to enter any of Iowa's Public Universities (Iowa State University, The University of Iowa, and University of Northern Iowa) must achieve a minimum Regents Admission Index Score of 245. This score is calculated as follows:

$$\begin{array}{rcl} & (3 \times \text{ACT composite score}) & \\ + & (30 \times \text{high school GPA}) & \\ + & \underline{(5 \times \text{Number of years of } \textbf{RAI-approved high school courses in core subject areas})} & \\ = & \text{Regent Admission Index Score} & \end{array}$$

To access the Regents Admission Index Calculator, go to:
[Regent Admission Index](#) or www2.state.ia.us/regents/rai/

Minimum Course Requirements for Admission to Iowa Public Universities

	IOWA STATE UNIVERSITY	UNIVERSITY OF IOWA	UNIVERSITY OF NORTHERN IOWA	OPTIMUM (Recommendations for success)
ENGLISH	4 years emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.	4 years with an emphasis on the analysis and interpretation of literature, composition and speech.	4 years including one year of composition, also may include one year of speech, communication or journalism.	4 years of core English language arts courses, plus additional learning experiences that emphasize skills of writing, reading, speaking, and listening. For example, courses in writing, media, speech, or debate will be valuable. Activities such as the production of news or yearbook, speech contest, or debate will further develop essential competencies.
MATH	3 years including one year each of algebra, geometry and advanced algebra	3 years including two years of algebra and one year of geometry for admission to the College of Liberal Arts and Sciences. 4 years including two years of algebra, one year each of geometry and higher math (trigonometry, analysis, or calculus) for admission to the College of Engineering.	3 years including the equivalent of algebra, geometry and advanced algebra.	4 years, one in each year of high school. While advanced courses like calculus and statistics are good, it's more important that you gain a complete understanding of advanced algebra and trigonometry.

	IOWA STATE UNIVERSITY	UNIVERSITY OF IOWA	UNIVERSITY OF NORTHERN IOWA	OPTIMUM (Recommendations for success)
NATURAL SCIENCE	3 years, including at least two years of courses which emphasize elements of biology, chemistry or physics.	<p>3 years including courses in physical science, biology, chemistry, environmental science and physics for admission to the College of Liberal Arts and Sciences.</p> <p>3 years with at least one year each in chemistry and physics for admission to the College of Engineering.</p> <p>Nursing—3 years, including one year each of biology, chemistry and physics.</p>	3 years including courses in general science, biology, chemistry, earth science, or physics. Laboratory experience is highly recommended.	4 years, one in each year of high school. To be well prepared, take at least one year each of biology, chemistry, and physics. These can be taken in any order and may be taught productively in either a separate or an integrated fashion, depending on your school's offerings.
SOCIAL STUDIES	<p>2 years for admission to Colleges of Agriculture and Life Science, Business, Design, Engineering and Human Sciences.</p> <p>3 years for admission to the College of Liberal Arts and Sciences.</p>	<p>3 years with US history and world History recommended for admission to the College of Liberal Arts and Sciences.</p> <p>2 years with US history and world history recommended for admission to the College of Engineering.</p>	3 years including courses in anthropology, economics, geography, government, history, psychology, or sociology.	3 years is essential, but four is better. Take at least one year each of US and world history. Additional courses in anthropology, economics, political science, psychology and sociology provide an important understanding of our political, social and economic institutions.

	IOWA STATE UNIVERSITY	UNIVERSITY OF IOWA	UNIVERSITY OF NORTHERN IOWA	OPTIMUM (Recommendations for success)
FOREIGN LANGUAGE	2 years of a single foreign language for admission to the Colleges of Engineering and Liberal Arts and Sciences.	2 years of a single foreign language are required for admission. For many degrees, the fourth year of proficiency is required for graduation. Nursing– 4 years in a single language or two years each in two different languages.	Foreign language courses are not required for admission. However, two years of foreign language in high school with a C- or above in the last course will meet the university graduation requirement.	4 years of a single foreign language. By taking foreign language during all four years of high school, you'll go beyond the basic skills and begin to use the language and reinforce your fluency.
OTHER COURSES	Specific elective courses are not required for admission.	Specific elective courses are not required for admission.	2 years of additional courses from the required subject areas, foreign language or the fine arts.	Explore! Courses in the fine arts, performing arts, computers, or technology will help round out your high school experience. Your future field of concentration or career may lie in one of those areas. Follow your interests, talents, and the strengths of your school. Remember to choose courses with high academic standards.

College Classes in High School

Advanced Placement (AP)

AP Courses enable high school students to participate in college-level course work while still in high school. The AP courses offered currently were created by teams of leading educators nationally and are audited at the College Board.

Eligibility Requirements	Students must meet applicable AP course prerequisites.
College Credit	Students must take an AP exam to receive college credit. The credit received is based on the scores earned and each individual Post-secondary institution's policies.
Costs	Courses are free. Students are responsible for the cost of the Advanced Placement exam. If the exam fee poses a financial hardship, please contact the high school counseling office.
Course Limit	None
Enrollment	Enrollment is completed through your high school counselor.

Concurrent Enrollment

Concurrent enrollment courses are college-level courses taken by high school students. Students will receive college and high school credit. Courses are taught by college-approved instructors on site at the high schools or through the Kirkwood Academy Programs.

Eligibility Requirements	<p>Cedar Rapids Community School District recommends waiting to take concurrent classes until 11th and 12th grade, with the exception of Project Lead the Way courses, which are open to 9th and 10th graders. Students must meet the following requirements to take a concurrent course:</p> <ul style="list-style-type: none">• Demonstrate proficiency in three academic areas: reading, math, and science. Proficiency is primarily determined by the Iowa Statewide Assessment of Student Progress (ISASP).• Meet Kirkwood Community College's course requirements for any course requiring prerequisites or placement scores.
College Credit	<p>Students will earn high school and college credit for the courses taken. The final course grade will be recorded on the high school transcript as a weighted grade. Kirkwood transcripts must be submitted to post-secondary institutions for college credit.</p>
Costs	<p>The district will pay for the cost of tuition and textbooks.</p>
Course Limit	<p>Per changes to Iowa Code in 2020, there are no longer statutory limits on the number of credits a student may take in a single academic year.</p>
Enrollment	<p>These steps must be completed before enrollment:</p> <ol style="list-style-type: none">1. Students will complete the online application form (that includes your Social Security Number) as directed by a school counselor or Kirkwood representative.2. If applicable, the student will provide a copy of their Kirkwood entrance test scores.3. Students must complete required orientation.
Transportation	<p>Students are responsible for transportation to and from class, field trips, and other out-of-class activities. Transportation to and from class can be provided by the district upon request.</p>

Alternative Concurrent Enrollment

The Alternative Concurrent Enrollment program allows eligible high school students to take college-level courses through Kirkwood Community College. These are courses not available at the high schools.

Eligibility Requirements	<p>Cedar Rapids Community School District recommends waiting to take Alternative Concurrent classes until 11th and 12th grade. Students must meet the following requirements to take a concurrent course:</p> <ul style="list-style-type: none">• Demonstrate proficiency in three academic areas: reading, math, and science. Proficiency is primarily determined by the Iowa Statewide Assessment of Student Progress (ISASP).• Meet Kirkwood Community College's course requirements for any course requiring prerequisites or placement scores.
College Credit	<p>Students will earn high school and college credit for the courses taken. The final course grade will be recorded on the high school transcript as a weighted grade. Kirkwood transcripts must be submitted to post-secondary institutions for college credit.</p>
Costs	<p>The district will pay for the cost of tuition and textbooks.</p>
Course Limit	<p>Per changes to Iowa Code in 2020, there are no longer statutory limits on the number of credits a student may take in a single academic year.</p>
Enrollment	<p>These steps must be completed before enrollment:</p> <ol style="list-style-type: none">1. Students will complete the online application form (that includes your Social Security Number) as directed by a school counselor or Kirkwood representative.2. If applicable, the student will provide a copy of their Kirkwood entrance test scores.3. Students must complete required orientation.
Transportation	<p>Students are responsible for transportation to and from class, field trips, and other out-of-class activities.</p>

Post Secondary Enrollment Options (PSEO)

The Postsecondary Enrollment Options (PSEO) program allows eligible high school students to expand their academic course offerings by taking college-level courses at many surrounding 4 Year Post Secondary institutions.

Eligibility Requirements	<p>PSEO courses are open to 11th and 12th grade students and 9th and 10th grade students identified as talented and gifted through our district. Students must meet the college's entrance requirements and any course prerequisites or placement scores. Students must meet the following requirement to take PSEO course:</p> <ul style="list-style-type: none">• Demonstrate proficiency in three academic areas: reading, math, and science. Proficiency is primarily determined by the Iowa Statewide Assessment of Student Progress (ISASP). Students may not take a course which is "comparable" to a course at your high school. (A "comparable" course is one offered by Jefferson, Kennedy, Metro or Washington.)
College Credit	<p>Students will earn high school and college credit for the courses taken. The final course grade will be recorded on the high school transcript as a weighted grade. College/university transcripts must be submitted to post-secondary institutions for college credit.</p>
Costs	<p>The Cedar Rapids Community School District will pay for the cost of tuition and textbooks. Students are responsible for transportation to and from class, field trips, and other out-of-class activities.</p> <p>Students will be responsible for all tuition and fees if the course is failed.</p>
Course Limit	<p>Per changes to Iowa Code in 2020, there are no longer statutory limits on the number of credits a student may take in a single academic year.</p>
Enrollment	<p>Registration must be completed through a school counselor.</p> <ol style="list-style-type: none">1. Meet with a school counselor to determine which courses are feasible.2. Complete the PSEO enrollment form for the desired institution by the deadline.3. Enrollment in course is subject to the institution's final approval.
Transportation	<p>Students are responsible for transportation to and from class, field trips, and other out-of-class activities.</p>

COURSE CATALOG 2021-2022

KEY

	Regents Admission Index Approved (RAI)
	NCAA Approved (NCAA)
	Advanced Placement (AP)
	5.0 Weighted (W)
	Iowa BIG (BIG)
	Concurrent (Dual) Credit (CC)
	Project Lead the Way (PLTW)
	Iowa Association for Career and Technical Education (ACTE)
	Competency Based Education (CBE)

English Language Arts

English Language Arts in Cedar Rapids Community School District provides a progression of learning across K-12 classrooms that supports and propels students' academic and personal growth in foundations of reading, writing, speaking, and listening. Research-based approaches and professional best practices frame our ways of teaching and engaging students in literacies. Teachers nurture students' development of skills and habits as lifelong readers, writers, and communicators, promoting literacies as meaningful and joyful, as well as essential to better understand one's self, others, and the world.

Required Coursework for English Language Arts

9TH GRADE

LA 9

OR

Advanced LA 9

10TH GRADE

LA 10

OR

Advanced LA 10

11th & 12th GRADE

Students must have a total of four semesters (2 years) from the courses listed below:

Year-Long Courses

U.S. Humanities and Composition
World Humanities and Composition
African American Humanities and Composition
Perspectives in Literature and Composition
AP English Language and Composition
AP Literature and Composition

Semester-Long Courses

Composition I – Kirkwood Community College
Composition II – Kirkwood Community College

Language Arts 9

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students will learn close analytic reading skills in literary and informative texts; how to write argument, informative/explanatory, and narrative texts; how to support opinions in speaking and writing with specific details drawn from sources; and will study the rules and craft of language. Attention will be given to acquisition of academic vocabulary as well as deepened understanding of both general vocabulary and vocabulary related specifically to the study of language arts.



Advanced Language Arts 9

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students will learn close analytic reading skills in literary and informative texts; how to write argument, informative/explanatory, and narrative texts; how to support opinions in speaking and writing with specific details drawn from sources; and will study the rules and craft of language. Attention will be given to acquisition of academic vocabulary as well as deepened understanding of both general vocabulary and vocabulary related specifically to the study of language arts.



Language Arts 10

Credit 1 credit per semester

Length 2 semesters

Prerequisite Language Arts 9 or Advanced LA 9

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students will learn close analytic reading skills in literary and informative texts; how to write argument, informative/explanatory, and narrative texts; how to support opinions in speaking and writing with specific details drawn from sources; and will study the rules and craft of language. Attention will be given to acquisition of academic vocabulary as well as deepened understanding of both general vocabulary and vocabulary related specifically to the study of language arts.



Advanced Language Arts 10

Credit 1 credit per semester

Length 2 semesters

Prerequisite Language Arts 9 or Advanced LA 9

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students will learn close analytic reading skills in literary and informative texts; how to write argument, informative/explanatory, and narrative texts; how to support opinions in speaking and writing with specific details drawn from sources; and will study the rules and craft of language. Attention will be given to acquisition of academic vocabulary as well as deepened understanding of both general vocabulary and vocabulary related specifically to the study of language arts.



US Humanities and Composition

Credit 1 credit per semester

Length 2 semesters

Prerequisite LA 9 or Advanced LA 9 and LA 10 or Advanced LA 10

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students will explore a variety of U.S. texts, such as literature, non-fiction, music, visual arts, dance, and media/film, texts that reflect a range of historical and contemporary times. Students will engage in writing, research, and speech to examine, connect, and respond to the texts.



World Humanities and Composition

Credit 1 credit per semester

Length 2 semesters

Prerequisite LA 9 or Advanced LA 9 and LA 10 or Advanced LA 10

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students will read, analyze and interpret art, music, architecture, and literature from a wide variety of world cultures and historical periods. Students will respond to these works in written compositions and oral presentations. Students will use various media resources for investigations, study, and communication of ideas.



African American Humanities and Composition

Credit 1 credit per semester

Length 2 semesters*

Prerequisite LA 9 or Advanced LA 9 and LA 10 or Advanced LA 10 or teacher permission

Course Description:

This course explores African American literature and culture from the nation's founding up to the present, taking into account historical, cultural, socio-political and literary contexts. Students will critically examine literature, art, music, movies, podcasts, etc. while analyzing key terms, ideas, literary periods, constructions and representations of African-American identity and race, and the contributions of African-American writers to American literature and culture. Students will participate in discussions and use course texts to examine the lives and experiences of African Americans, and by extension, their own experiences as they gain knowledge. Students will think critically about the world around them as influenced by the experiences of African Americans. The course emphasizes writing for multiple purposes and incorporates skills such as supporting ideas with valid reasons and evidence, effectively organizing written pieces, and connecting ideas from multiple sources.

** This course can be taken as a one semester elective in fall or spring, although it is designed to be a yearlong course.*



Perspectives in Literature and Composition

Credit 1 credit per semester

Length 2 semesters

Prerequisite LA 9 or Advanced LA 9 and LA 10 or Advanced LA 10

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students in this class will study recurring themes in texts from the United States and around the world. Literary work, will, for the most part, be selected from texts published since 1950 and will include fiction and non-fiction, print and non-print sources. Students will demonstrate their knowledge through creative, expository and argumentative writing, formal and informal speaking, and the production of media texts.



AP English Language and Composition

Credit 1 credit per semester

Length 2 semesters

Prerequisite LA 9 or Advanced LA 9 and LA 10 or Advanced LA 10

Course Description:

This college-level class prepares students for the Advanced Placement Exam in English Language and Composition. Students will study analytic and persuasive writings of various genres and time periods, as well as write original essays of analysis and argument. The course's focus is on the study of language and rhetoric, designed to help students reach grade level Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking, Listening, and Language.



AP English Literature and Composition

Credit 1 credit per semester

Length 2 semesters

Prerequisite LA 9 or Advanced LA 9 and LA 10 or Advanced LA 10

Recommended prerequisite AP English Language Arts and Composition

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in English Literature and Composition. This rigorous course focuses on the close reading of literature selected for its social, literary, and historic value. Students will hone their thinking and writing skills by preparing essays of literary analysis, formal exposition, argument, and research. Students will participate in large and small group discussion, oratory, and dramatic performance. Text also will include film and live performances of literary works. This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language.



Composition 1

Credit 1 credit per semester of high school credit and three Kirkwood Community College credits

Length 1 semester

Prerequisite Students must meet Senior Year Plus Eligibility Requirements and the Kirkwood entrance requirement. Open to Juniors and Seniors.

Course Description:

This course develops students' expository writing experiences with emphasis on organization, supporting details, style, vocabulary, and library research. Students will be asked to engage in critical reading, writing, and thinking about texts and ideas, based on thorough analysis; experience writing processes that include invention, multiple drafts, workshopping, global revision, and editing; and develop practices to effectively and ethically integrate and document sources.



Composition 2

Credit 1 credit per semester of high school credit and three Kirkwood Community College credits

Length 1 semester

Prerequisite Composition 1

Students must meet Senior Year Plus Eligibility Requirements and the Kirkwood entrance requirement.

Open to Juniors and Seniors

Course Description:

Continuing the learning, Composition 2 focuses students on learning precise and responsible use of research tools. The course requires critical analysis of reading materials, audience, and self when communicating content material. Students will be asked to engage in reading, writing, and thinking to develop effective and ethical arguments. Writing processes will include multiple drafts, workshopping, global revision, and editing.



Fundamentals of Oral Communication

Credit 1 credit per semester of high school credit and three Kirkwood Community College credits

Length 1 semester

Prerequisite Open to Juniors and Seniors

Course Description:

Studies basic communication theory and practice including communication process, interpersonal relationships, small group interaction and public speaking.



Theatre Arts and Performance

Credit 1 credit per semester

Length 1 semester (students can take this course more than once)

Prerequisite None

Course Description:

Students will study the artistry and history of performance through playscript analysis, design, and professional performances. Students will also develop acting and performance skills (including pantomime, improvisation, vocal work, character development and script interpretation) in order to vocally and physically interpret a dramatic text(s). This course culminates in a final product requiring students to memorize, develop, rehearse, and perform.

Stagecraft and Design

Credit 1 credit per semester

Length 1 semester (students can take this course more than once)

Prerequisite None

Course Description:

Students interested in the technical aspects (theatre safety, lighting, sound, and set construction) of theatre will develop knowledge and skills vital to every stage production. Students will contribute to an actual production. Class time will be divided between classroom studies and backstage work in the theatre.

Speech and Debate

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will develop and improve public speaking skills in a variety of speaking situations with an emphasis on composition, research, and persuasive speaking. Students will also develop and improve skills in debate and discussion and be expected to apply this knowledge.



Creative Writing

Credit 1 credit per semester

Length 1 semester (students can take this course more than once)

Prerequisite None

Course Description:

This course is for students interested in developing as a writer. Through reading and analyzing exemplary texts, and through writing exercises, peer and teacher feedback, and active revision, students will develop original work such as poetry, short stories, drama, memoir, and literary nonfiction. Participation in a collaborative workshop setting is required. Students will put together a final portfolio and/or will submit their pieces for publication or performance.



Reading Workshop

Credit 1 credit per semester

Length 1 semester (students can take this course more than once)

Prerequisite None

Course Description:

This course is for students who would like to develop their literary power through exploration of a variety of authors and genres. Students will develop a personal reading plan based on suggested book lists, targeted reading assessments, and instructor support to improve reading ability, comprehension, vocabulary, and demonstrate growth. Students will demonstrate and reflect on their reading growth through collaborative discussions, book talks, and written responses.



Introduction to Media - Journalism

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course prepares students for participation in the school yearbook or school news media. Students will learn to interview, report, write, and produce story types (e.g.: news, sports, opinion, features). Students will create story visuals such as infographics and photography, and learn to use digital technologies and social media as tools for research and design. Coursework provides an understanding of the media responsibilities and role in society.



Student News Media - Journalism

Credit 1 credit per semester

Length 1 semester (students can take more than once)

Prerequisite Introduction to Media or advisor approval

Course Description:

Students collaboratively plan, produce, lead and distribute school media for the timely and relevant coverage of events, people, and issues. Media coverage (news, sports, features, opinion etc.) will be produced in print and multimedia forms. Students use writing, photography, design, social media, and audio/broadcast formats. This product-based learning environment affords student creativity, critical thinking, and teamwork experiences. Students build skills through writing, reporting, design, visual storytelling, and digital productions.

Broadcast Journalism

Credit 1 credit per semester

Length 1 semester (students can take more than once)

Prerequisite Introduction to Media or advisor approval

Course Description:

This course explores the world of digital video and television production. Students learn on professional equipment in a modern digital TV studio. They also gain experience with industry standard video editing software. Students work in collaborative teams to produce projects using cameras, while learning the basics of studio and field production, lighting and sound. Special emphasis is placed on research, creativity and the writing process.

Student Yearbook

Credit 1 credit per semester

Length 1 semester (students can take more than once)

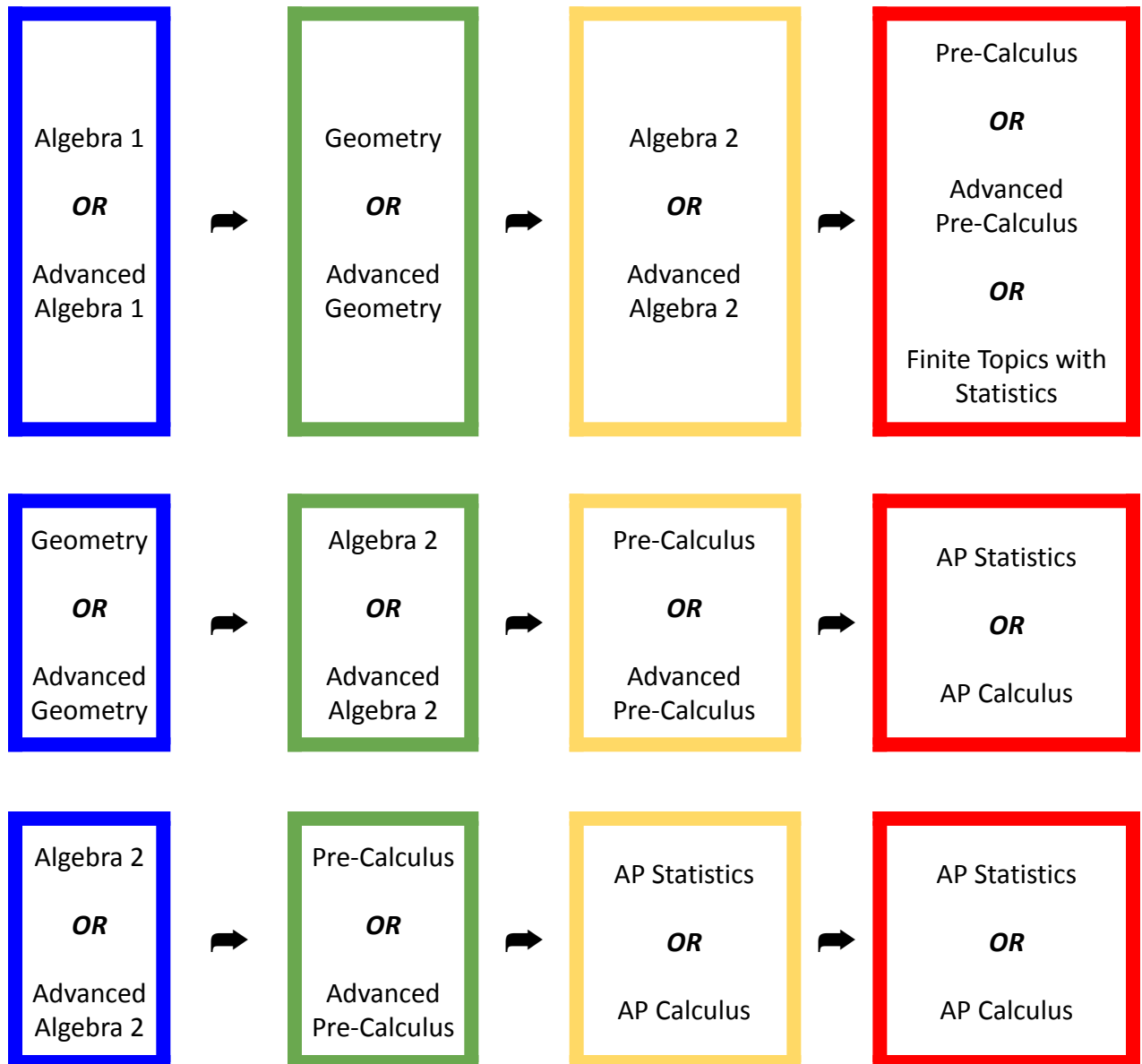
Prerequisite Introduction to Media or advisor approval

Course Description:

Students lead, plan, and produce the school yearbook. Student editors organize and lead the staff to outline and create their yearbook plan, including coverage of a variety of school and community events. The staff ends its work with the distribution of the yearbook to the school audience. Staff members use digital software to capture the school year with writing, reporting, photography, and design.

Mathematics

Mathematics in Cedar Rapids Community School District empowers learners to be future ready. Math presides in a culture of equity where each and every student has access to high-quality curriculum and instruction empowered by the opportunities to collaborate, communicate and showcase their understanding of mathematical content in diverse ways.



Algebra 1

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

The concepts and skills built in first year algebra lay the firm foundation for future math courses and careers. First year algebra develops linear and quadratic functions numerically, symbolically, and graphically. Fundamental algebra skills as well as problem-solving capabilities are developed, applied, and emphasized throughout in real-world contexts. The course integrates technology, connects algebra to geometry, and explores data analysis.



Advanced Algebra 1

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

The concepts and skills built in first year algebra lay the firm foundation for future math courses and careers. First year algebra develops linear and quadratic functions numerically, symbolically, and graphically. Fundamental algebra skills as well as problem-solving capabilities are developed, applied, and emphasized throughout in real-world contexts. The course integrates technology, connects algebra to geometry, and explores data analysis. Depth and rigor of content, along with a faster pace, distinguish this course from Algebra 1.



Geometry

Credit 1 credit per semester

Length 2 semesters

Prerequisite Algebra 1

Course Description:

Geometry develops inductive and deductive reasoning skills along with analytical and visual thinking. It furthers the understanding of geometric relationships and applies these relationships to real-world situations. Definitions, properties, and relationships for lines, angles, polygons, circles, transformations, measurement, basic trigonometry, and similarity are developed through problem-solving, constructions, and investigations. Coordinate geometry, algebra skills, and informal proofs are emphasized throughout.



Advanced Geometry

Credit 1 credit per semester

Length 2 semesters

Prerequisite Advanced Algebra 1

Course Description:

Geometry develops inductive and deductive reasoning skills along with analytical and visual thinking. It furthers the understanding of Euclidean geometric relationships and applies these relationships to real world situations. Definitions, properties, and relationships for lines, angles, polygons, circles, transformations, measurement, basic trigonometry, and similarity are developed through problem-solving, constructions, and investigations. Coordinate geometry, algebra skills, informal and formal proofs are emphasized throughout. Depth and rigor of content, along with a faster pace, distinguish this course from Geometry.



Algebra 2

Credit 1 credit per semester

Length 2 semesters

Prerequisite Algebra 1 and Geometry

Course Description:

Second year Algebra continues to use real-world contexts to develop function relationships with emphasis on quadratic, exponential, logarithmic, polynomial, and radical functions. Geometric and algebraic concepts are extended to topics in trigonometry, probability, statistics, and discrete mathematics including the study of sequences and series, and complex numbers.



Advanced Algebra 2

Credit 1 credit per semester

Length 2 semesters

Prerequisite Advanced Geometry

Course Description:

Advanced Algebra 2 continues to use real-world contexts to develop function relationships with emphasis on quadratic, exponential, logarithmic, polynomial, and radical functions. Geometric and algebraic concepts are extended to topics in probability, statistics, and discrete mathematics including the study of sequences and series, conics, and complex numbers. Depth and rigor with the content, along with a faster pace, distinguish this course from Algebra 2.



Pre-Calculus

Credit 1 credit per semester

Length 2 semesters

Prerequisite Algebra 2

Course Description:

This course focuses on the major ideas of mathematics needed for calculus including an in- depth treatment of the fundamentals of trigonometry, an in-depth treatment of elementary functions, and an introduction to the calculus topics of limit, continuity, and derivative. The course's inclusion of real-world data allows for enhanced focus on statistical thinking as well as on applications, critical thinking, and the meaningful use of technology.



Advanced Pre-Calculus

Credit 1 credit per semester

Length 2 semesters

Prerequisite Advanced Algebra 2

Course Description:

This course focuses on the major ideas of mathematics needed for calculus including an in- depth treatment of the fundamentals of trigonometry, an in-depth treatment of elementary functions, and an introduction to the calculus topics of limit, continuity, and derivative. The course's inclusion of real-world data allows for enhanced focus on statistical thinking as well as on applications, critical thinking, and the meaningful use of technology. Depth and rigor with the content, along with a faster pace, distinguish this course from Pre-Calculus.



Finite Topics with Statistics

Credit 1 credit per semester

Length 2 semesters

Prerequisite Algebra 2

Course Description:

This course is designed for college bound students, especially those planning to major in science, social sciences, or business. The course provides an introduction to the mathematics and logic used in scientific research. It includes data organization and statistical reasoning with emphasis on concepts and uses of statistics. Topics include the mathematics of finance, management science, path analysis, symmetry, apportionment, fair division, quality control, and descriptive and inferential statistics.



AP Statistics

Credit 1 credit per semester

Length 2 semesters

Prerequisite Pre-Calculus

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Statistics. AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course consists of a year of work in statistics that is comparable to a one-semester introductory college statistics course. Students are exposed to four broad conceptual themes: 1. Exploring Data: Observing patterns and departures from data. 2. Planning a Study: Deciding what and how to measure. 3. Anticipating Patterns: Producing models using probability and simulation. 4. Statistical inference: Confirming models.



AP Calculus AB

Credit 1 credit per semester

Length 2 semesters

Prerequisite Pre-Calculus

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Calculus. The AP (Calculus) course consists of a full year of work in calculus that is comparable to the first semester course in most colleges and universities. Topics covered include concepts and applications of functions, derivatives and antiderivatives, techniques of integration, and the definite integral. The AP Calculus course prepares students for advanced placement testing and possible college credits in mathematics. Students, at their own discretion, may elect to take examinations in mathematics administered by the AP Program of the College Entrance Examination Board.



AP Calculus BC

Credit 1 credit per semester

Length 2 semesters

Prerequisite Advanced Pre-Calculus

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Calculus. The AP (Calculus) course consists of a full year of work in calculus that is comparable to the first and second semester courses in most colleges and universities. Topics covered include concepts and applications of functions, derivatives and antiderivatives, techniques of integration, and the definite integral, convergence tests, polynomial approximations and series, and Taylor series. The AP Calculus course prepares students for advanced placement testing and possible college credits in mathematics. Students, at their own discretion, may elect to take examinations in mathematics administered by the AP Program of the College Entrance Examination Board.



Algebra Prep

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

The Algebra Prep course reinforces number concepts and computation skills with rational numbers. The course introduces and connects basic algebra and geometry concepts and skills.

Algebra 1 Readiness

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

The concepts and skills built in Algebra 1 readiness lay the firm foundation for future math courses. Algebra 1 Readiness reinforces operations with integers and rational numbers, order of operations, distributive property, rates and unit rates, solving proportions and multi-step equations, as well as graphing in the coordinate plane. Problem-solving capabilities are developed and applied throughout in real-world contexts.

Algebra 2 Readiness

Credit 1 credit per semester

Length 1 semester

Prerequisite Geometry

Course Description:

Algebra 2 Readiness reviews essential concepts learned in Algebra 1 and extends those concepts in order to introduce new algebraic topics. Topics covered include simplifying and evaluating expressions; solving linear, absolute value, and quadratic equations and inequalities; solving systems of linear equations; evaluating and graphing functions (linear, absolute value, quadratic). Course topics will emphasize not only algebraic skills, but their real-world uses. Throughout the course, students will use graphing calculators and other technologies to investigate, analyze, and explain the algebraic concepts and problems studied.

Consumer Mathematics

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is designed to prepare students for navigating the financial realities of life after high school. Topics are introduction to personal finance, saving, budgeting, debt, life after high school, consumer awareness, shopping, investing and retirement, insurance, money and relationships, careers, taxes, cooking as it relates to consumer costs, and home-improvement costs. Within this course, students will be solving algebraic equations, calculating with real-life percents, predicting future-money situations with exponential growth models, and comparing situations with proportions.

Algebra Lab

Credit 1 credit per semester

Length 2 semesters

Co-requisite Algebra 1

Course Description:

The Algebra Lab course is taken in conjunction with Algebra 1. The course is designed to reinforce concepts and skills that students have experienced in Algebra 1. Students will be given additional support through direct instruction and activities to help build proficiency. They will be offered opportunities to experience concepts prior to instruction in Algebra 1 to build confidence and understanding. The course will also focus on building number sense and mathematical awareness. This will be accomplished through rich mathematical discussions and components of blended learning.

Geometry Lab

Credit 1 credit per semester

Length 2 semesters

Co-requisite Geometry

Course Description:

The Geometry Lab course is taken in conjunction with Geometry. The course is designed to reinforce concepts and skills that students have experienced in Geometry. Students will be given additional support through direct instruction and activities to help build proficiency. They will be offered opportunities to experience concepts prior to instruction in Geometry to build confidence and understanding. The course will also focus on building number sense and mathematical awareness. This will be accomplished through rich mathematical discussions and components of blended learning.

Foundational Math Skills

Credit 1 credit per semester (elective credit only)

Length 2 semesters

Prerequisite None

Course Description:

This course is designed for students who have entered high school and are not able to access or not adequately prepared for success with materials that align to Iowa Common Core Mathematics Standards for grades 9-12. The focus of this course is building the foundation necessary for success in high school level mathematics. The instruction will concentrate on the following: place value, estimation, whole number operations, fraction concepts, fraction operations, decimal operations, word problems, and calculator skills. The course will be appropriately differentiated to meet the educational needs of each student. Note: this course is for elective credit only; it does not meet the math graduation requirement.

Science

Science in Cedar Rapids Community School District empowers students to continue to learn in the future by asking questions about the world around them or identifying problems, seeking knowledge and thinking critically to develop and communicate evidence-based explanations or solutions.

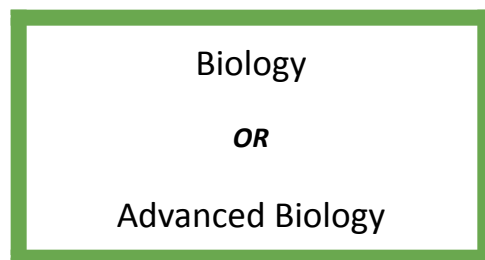
Six science credits are required for graduation. Students must complete coursework in earth science, life science, and physical science. If a student is considering a four-year college or university, eight credits or four years of science is recommended.

Required Coursework for Science

Earth Science Requirement

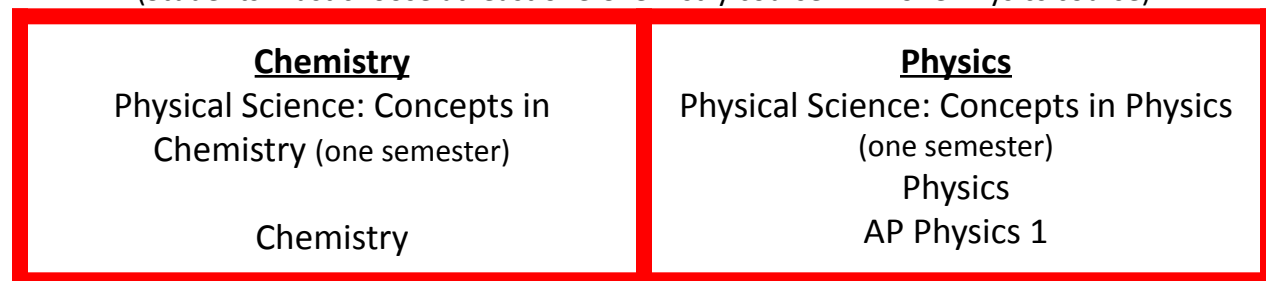


Life Science Requirements



Physical Science Requirements

(Students must choose at least one Chemistry course **AND** one Physics course)



Science Electives

<ul style="list-style-type: none">• AP Environmental Science• Environmental & Ecological Problems	<ul style="list-style-type: none">• AP Biology• Botany• Anatomy & Physiology	<ul style="list-style-type: none">• Forensic Science• AP Chemistry• AP Physics C
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Earth Science

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This year-long course will address the earth science Iowa Core requirements and include topics in Geology, Climate Science, and Astronomy. It is designed to provide students with an understanding of the Earth's composition and history, the basic elements of climate and climate patterns, and the basic study of planets, stars, and other essential information about the universe. Human impacts are woven throughout the course.

This course is required for graduation



Biology

Credit 1 credit per semester

Length 2 semesters

Prerequisite or Corequisite Earth Science

Course Description:

This course is required for graduation. Advanced biology may be taken in place of this course. Students will learn and apply basic principles of biology in this year-long course that addresses the life science Iowa Core requirements. Emphasis will be given to the study of cells, genetics, heredity, evolution, and ecology. Throughout the course students will develop their ability to practice scientific inquiry – asking questions, hypothesizing, designing experiments, analyzing data, reaching evidence-based conclusions, and communicating results.

This course is required for graduation.



Advanced Biology

Credit 1 credit per semester

Length 2 semesters

Prerequisite or Corequisite Earth Science

Course Description:

Students will learn and apply basic principles of biology at an accelerated pace in this year-long course. Emphasis will be given to the study of cells, genetics, heredity, evolution, and ecology. Throughout the course students will develop their ability to practice scientific inquiry— asking questions, hypothesizing, designing experiments, analyzing data, reaching evidence- based conclusions, and communicating results. Students will design and conduct their own investigations several times throughout the course and will be engaged in complex scientific reading, writing, and discussion with intellectual peers. This course can be taken in place of Biology to fulfill the life science graduation requirement.



Physical Science: Concepts in Chemistry

Credit 1 credit per semester

Length 1 semester

Prerequisite or Corequisite Earth Science and Algebra 1

Course Description:

This course is required for graduation. Chemistry may be taken in place of this course.

This one semester course will address chemistry-related physical science Iowa Core Requirements including: atomic structure, nuclear chemistry, chemical properties including bonding, periodic table patterns, chemical reactions, and thermochemistry.

A combination of Chemistry, Physics, Concepts in Chemistry, and Concepts in Physics is required for graduation.



Physical Science: Concepts in Physics

Credit 1 credit per semester

Length 1 semester

Prerequisite Earth Science and Algebra 1

Course Description:

This course is required for graduation. Physics, Unified Physics, or AP Physics may be taken in place of this course. This one semester course will address physics-related physical science Iowa Core requirements including: Energy, motion, gravity, light, waves and electromagnetism. Scientific inquiry will be emphasized in this laboratory science course.

A combination of Chemistry, Physics, Concepts in Chemistry, and Concepts in Physics is required for graduation.



Chemistry

Credit 1 credit per semester

Length 2 semesters

Prerequisites Algebra 2 or concurrent enrollment. Exceptions only with the express written (and per student) approval from instructor.

Course Description:

Chemistry is an elective designed to introduce the basic concepts in particulate nature and chemical interactions. Recommended for students interested in careers in science, health sciences, and engineering. This year-long course can be taken in place of the Physical Science: Concepts in Chemistry (semester course) to fulfill the Physical Science graduation requirement.

A combination of Chemistry, Physics, Concepts in Chemistry, and Concepts in Physics is required for graduation.



Physics

Credit 1 credit per semester

Length 2 semesters

Prerequisite or Corequisite Algebra 2 or concurrent enrollment

Course Description:

Physics is an elective course designed to provide a general background in physics. Recommended for students interested in careers in science and engineering related fields. This year-long course can replace the Physical Science: Concepts in Physics (semester course) graduation requirement.

A combination of Chemistry, Physics, Concepts in Chemistry, and Concepts in Physics is required for graduation.



AP Chemistry

Credit 1 credit per semester

Length 2 semesters

Prerequisite Chemistry and Algebra 2

Course Description:

This college-level, yearlong course is designed to prepare students for the Advanced Placement Exam in Chemistry. The AP Chemistry course is designed to be taken only after the successful completion of a first course in high school chemistry and second-year algebra. Study will focus on the following six big ideas: atoms & elements, structure & properties of matter, chemical reactions, kinetics, thermodynamics and equilibrium. Through inquiry-based learning students develop critical thinking and reasoning skills. Recommended for students enrolling in college chemistry and students interested in careers in science, medicine and engineering.



AP Environmental Science

Credit 1 credit per semester

Length 2 semesters

Prerequisites Earth Science and Biology

Course Description:

This college-level, yearlong course is designed to prepare students for the Advanced Placement Exam in Environmental Science. AP Environmental Science provides an opportunity for students to develop skills, both laboratory and field related, in the environmental sciences as well as acquire the scientific background to current ecological problems. Recommended for students who want to pursue a rigorous course covering environmental topics such as population, pollution, energy and resources.



Anatomy & Physiology

Credit 1 credit per semester

Length 2 semesters

Prerequisites Biology and either Physical Science: Concepts in Chemistry or Chemistry is recommended

Course Description:

Anatomy & Physiology is an elective course and will include a yearlong program of intense human anatomy and physiology studies. The areas covered will include medical terminology, basic chemistry, cell and tissue structure, and the 11 systems of the human body (integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary and reproductive). Laboratory work will be required. This course is designed for college preparation, especially for biology and health career majors.



Environmental and Ecological Problems

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Environmental and Ecological Problems is a semester-long elective designed to investigate native organisms using basic ecological techniques. It is also designed to provide the student with an understanding of the ecological principles and environmental problems affecting natural and human systems. Outdoor work is required. Recommended for students interested in careers in agri-science and natural resources, or environmental technology.



Botany

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Botany is a semester-long elective designed to study plant structure, function and propagation. Students will learn to grow and care for a variety of plants. Outdoor work is required. Landscaping and gardening techniques will be examined. Recommended for students interested in careers in agri-science and natural resources.



AP Biology

Credit 1 credit per semester

Length 2 semesters

Prerequisite Biology or Advanced Biology

Course Description:

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes – energy and communication, genetics, information transfer, ecology, and interactions.



Forensic Science

Credit 1 credit per semester

Length 1 semester

Prerequisite Biology

Course Description:

This semester-long elective course will look at various aspects of forensic science and modern criminal investigation analysis. This course focuses on problem solving, with an emphasis on writing, using experimentation, theorization, research forensic methodologies, synthesis of information and evidence-based conclusions. This knowledge will be applied to forensic investigation and the identification of remains. In addition, the course will cover selected topics in toxicology, serology, fingerprint identification, anthropology, entomology and pathology.



AP Physics 1

Credit 1 credit per semester

Length 2 semesters

Prerequisite or Corequisite Consent of instructor or Algebra 2. Concurrent enrollment in Pre-Calculus recommended.

Course Description:

This college-level, yearlong course is designed to prepare students for the Advanced Placement Exam in AP Physics 1. AP Physics 1 is intended to be representative of introductory college courses that are Algebra based. Students will: 1. Read, understand, and interpret physical information (verbal, mathematical, and graphical). 2. Describe and explain the sequence of steps in the analysis of a physical phenomenon or problem. 3. Use basic mathematical reasoning. 4. Perform experiments and interpret the results of observations. Recommended for students who wish to pursue careers in engineering, medicine, and science. This year-long course can replace the Physical Science: Concepts in Physics (semester course) graduation requirement.



AP Physics C – Mechanics

AP Physics C – Electricity and Magnetism

Credit 1 credit per semester

Length 2 semesters

Prerequisite or Corequisite Concurrent enrollment in AP Calculus required. Completion of Physics or AP Physics 1 recommended

Course Description:

This college-level, yearlong course is designed to prepare students for the Advanced Placement Exam in Physics. This class is designed for students who plan on attending college and majoring in the following fields: engineering, astronomy, chemistry, or computer science. The difficulty level is designed to be at least that found on most college campuses. This sequence is more intensive and analytical than that of AP Physics 1. Strong emphasis is placed on solving a variety of problems, some requiring calculus. The content and difficulty level should prepare a student to successfully complete the mechanics and electricity and magnetism portions of the AP Physics "C" exam. This is a college level course, so a strong work ethic is helpful. This year- long course can replace the Physical Science 2 (semester course) graduation requirement.



Social Studies

Social Studies in Cedar Rapids Community School District is the integrated study of the social sciences and humanities to promote civic competence. Social Studies courses embed the development of critical thinking, effective citizenship, and essential communication skills into the development of historical reasoning skills, as well as geographic and economic literacy to prepare students for college, career, and civic life. (National Council for Social Studies, 2010 & 2013)

Six Social Studies credits are required for graduation. Students must take coursework in United States History, World History, American Government, and Economics. If a student is planning to attend a four-year college or university, four years of Social Studies is recommended. The one-half unit of Financial Literacy (per Iowa's [Graduation Requirements](#)) is embedded in the required Economics course as part of social studies coursework.

10th Grade

World History
OR
AP World History
OR
AP European History

11th Grade

US History
OR
AP US History

Students must select one American Government course **AND** one Economics course. (These courses are typically taken during 11th or 12th grade.)

<p><u>American Government</u></p> <p>American Government (semester-long)</p> <p>AP United States Government (year-long)</p> <p>AP Comparative Government & Politics (year-long)</p>	<p><u>Economics</u></p> <p>Economics (semester-long)</p> <p>AP Microeconomics (semester-long)</p> <p>AP Macroeconomics (semester-long)</p>
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Social Studies Electives

Behavioral Sciences 1 Behavioral Sciences 2 AP Comparative Government & Politics	Human Geography AP Human Geography Current World Issues Philosophy	(Offered to 10th-12th Grades Only) African American History AP Psychology
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World History

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is required for graduation. AP World History or AP European History may be taken in place of this course. This course traces the development of the economic, political, social, and intellectual traditions of the world's major cultures, with a focus on the modern era. It concludes with an investigation of contemporary international issues. The course emphasizes the development of critical learning and thinking skills. Students in this course will develop their abilities to analyze continuities, changes, causation, and evaluate context throughout world history study. Students will also examine diverse perspectives and evaluate historical sources of information.



AP World History

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in World History. This course surveys the history of the world from 1200 C.E. to present via a focus on analyzing historical sources of information, constructing historical arguments, and developing historical thinking. Taught through major themes of interaction, change and continuity, technology, and social structures, the course examines civilizations across the globe. This course prepares students for advanced placement testing and possible college credit by emphasizing the refinement of thinking and writing skills. The series must be taken in sequence for maximum benefit.



AP European History

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in European History. This course surveys the history of the world, beginning with a survey of ancient and medieval civilizations via a focus on analyzing historical sources of information, constructing historical arguments, and developing historical thinking. The emphasis of the course is on the modern world (1300- present) and the impact Western European civilization has had on contemporary affairs. The course prepares students for advanced placement testing and possible college credit in European history by emphasizing the refinement of thinking and writing skills.



United States History

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is required for graduation. AP United States History may be taken in place of this course. This course surveys United States history from 1900-present via a focus on inquiry and historical thinking skills embedded in the Iowa Core Social Studies Standards. It places emphasis on the evolution of political, social, and economic institutions. Additionally, the course examines diverse communities of people in American society in the context of a multicultural environment. This course emphasizes the development of critical learning and thinking skills.



AP United States History

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This college-level course is designed to prepare students for the Advanced Placement Exam in U.S. History. AP United States History is a survey of the history of the United States from 1492 to the present via a focus on analyzing historical sources of information, constructing historical arguments, and developing historical thinking. This course prepares students for advanced placement testing and possible college credit by emphasizing the refinement of thinking and writing skills by weighing the evidence and interpretations presented in historical scholarship.



United States History to 1877

Credit 1 credit per semester of high school credit and three Kirkwood Community College credits

Length 1 semester

Prerequisite Open to Juniors and Seniors and must meet Senior Year Plus requirements.

Course Description:

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.



United States History Since 1877

Credit 1 credit per semester of high school credit and three Kirkwood Community College credits

Length 1 semester

Prerequisite Open to Juniors and Seniors and must meet Senior Year Plus requirements.

Course Description:

Studies 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.



Economics

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course is required for graduation. AP Microeconomics or AP Macroeconomics may be taken in place of this course. The basic economic questions regarding what to produce, how to produce, and for whom to produce in a world of limited resources are the focus of this course, including applications to the business community. Microeconomic concepts are addressed such as demand, supply, market clearing price, as well as skills for effective participation in the marketplace. Macroeconomic concepts such as the measurement of economic goals and the effects of monetary and fiscal policy are also addressed. In accordance with Iowa Code, students also develop financial literacy that meets graduation requirements via examination of several concepts related to personal finance.



Online Economics

Credit 1 credit per semester

Length 1 semester

Prerequisite This course is taught through Canvas; open to juniors and seniors

Course Description:

The basic economic questions regarding what to produce, how to produce, and for whom to produce in a world of limited resources are the focus of this course, including applications to the business community. Microeconomic concepts are addressed such as demand, supply, market clearing price, as well as skills for effective participation in the marketplace. Macroeconomic concepts such as the measurement of economic goals and the effects of monetary and fiscal policy are also addressed. In accordance with Iowa Code, students also develop financial literacy that meets graduation requirements via examination of several concepts related to personal finance.



AP Microeconomics

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Microeconomics. This course studies the principles that apply to the functions of individual decision-makers, both consumers and producers, within a mixed market. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. In accordance with Iowa Code, students also develop financial literacy that meets graduation requirements via examination of several concepts related to personal finance. This course does not replace the American Government graduation requirement. This course does satisfy the graduation requirement for Economics.



AP Macroeconomics

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Macroeconomics. This course studies the principles of economics that apply to the economic system as a whole. It places emphasis on the study of national income and price determination, and also develops the concepts of economic performance measures, economic growth, and international economics. This course does not replace the American Government graduation requirement. This course does satisfy the graduation requirement for Economics. In accordance with Iowa Code, students also develop financial literacy that meets graduation requirements via examination of several concepts related to personal finance.



Online American Government

Credit 1 credit per semester

Length 1 semester

Prerequisite This course is taught through Canvas; open to juniors and seniors

Course Description:

This course can be taken in place of American Government taught face to face. This course presents a study of the structure and function of American government as established by the Constitution. The emphasis of this course is on the knowledge and behaviors necessary for effective citizenship within our community, state, nation, and world.



American Government

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course presents a study of the structure and function of American government as established by the Constitution. The emphasis of this course is on the knowledge and behaviors necessary for effective citizenship within our community, state, nation, and world.



AP United States Government & Politics

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in U.S. Government and Politics. This course provides students with a comprehensive and critical perspective on the development of Constitutional government in the United States. Students will examine, in detail, the government established by the Constitution, with particular emphasis on the separation of powers and federalism. Students will also work extensively with ideological and philosophical traditions from which the framers drew inspiration and the historical setting which influenced their work. Both semesters of this course are required to satisfy the graduation requirement for Government.

AP Government courses may be taken as electives in grades 10-12.



AP Comparative Government & Politics

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Comparative Government and Politics. This course is designed to provide students with an understanding of the world's diverse political structures and practices. Six governments are studied as examples of different political systems in an effort to analyze typical patterns of political processes and behavior and their consequences and to compare and contrast political institutions and processes across countries. A developing nation is also included as students learn about the political implications of different levels of economic development. Both semesters of this course are required to satisfy the graduation requirement for Government.



Philosophy

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course is a survey of the major topics of the discipline; logic, metaphysics, reality, ethics, religion, and the purpose of life.



AP Psychology

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Psychology. Throughout this course, students engage in the systematic and scientific study of behavior and mental processes. Students must interrelate different content areas to analyze and evaluate psychological constructs, and more generally, theoretical perspectives. Students are expected to use their analytical and organizational skills in written essays.



Introduction to Psychology

Credit 1 credit per semester of high school credit and 3 Kirkwood Community College credits

Length 1 semester

Prerequisite Open to Juniors and Seniors and must meet Senior Year Plus requirements.

Course Description:

Introduces the scientific study of mental processes and behavior with emphasis on the nervous system, learning and memory, cognition, sensation and perception, motivation and emotion, personality, intelligence, stress, psychological disorders and therapy, and social influence. Encourages critical thinking about research methods and ethics.



Behavioral Sciences 1

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course explores the behavioral science of Psychology. The emphasis of this course is on the diversity of factors influencing the motivation, development, structure, and behavior of human personalities. Students will also explore data, theories, methodologies, ethics, and standards of psychological research.



Behavioral Sciences 2

Credit 1 credit per semester

Length 1 semesters

Prerequisite None

Course Description:

This course explores topics in the behavioral sciences of Sociology and Psychology. This emphasis of this course is on the ways in which human beings interact with the values, beliefs, norms, and institutions of a society. The manner in which individuals are socialized into a society is also explored alongside a selection of topics that may include racism, prejudice, alienation, conformity, and the dynamics of social behavior.



Current World Issues

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course will apply the disciplinary lenses of Social Studies (including historical, economic, geographic, political science, and behavioral sciences) to analyze current global issues. Students will acquire a realistic perspective on issues and consider the relationship between self, national, and global interests, as well as the connections between themselves and people elsewhere in the world. Students will explore causation, context, and plan to take informed action to address global issues.



AP Human Geography

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This college-level course is designed to prepare students for the Advanced Placement Exam in Human Geography. Systematic study of patterns and processes that have shaped human understanding through use and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to analyze social organization and its environmental consequences. The course involves the study of urban, economic, political, and demographic geography. The course outline is consistent with the College Board's Advanced Placement Human Geography program.



Human Geography

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Human geography focuses on understanding the physical and cultural features of places and their natural settings on earth. The emphasis of this course is partly on understanding the basic geographic topics of topography, climate, resources, population, and political division. Topics in human geography including how humans understand, use, and alter the earth's surface are also addressed. This course provides a forum for studying, observing, reporting, researching, predicting, and managing issues of an interdependent world.



African American History

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This semester-length course explores African American history from the era of the nation's founding up to the present. Students will critically examine primary and secondary sources of information related to African American experiences. Using lenses of causation, continuities and changes over time, and the consideration of diverse perspectives, students will contextualize African American history. Students will draw connections between past events and contemporary issues in order to generate a focus on taking informed action to address problems, advocate for public policies, and influence mindsets.



World Languages

World Languages in Cedar Rapids Community School District include the integrated study of communication and culture to promote language development and cultural competence in multiple languages. World Language courses promote global literacy and prepare students to be future ready through development of critical-thinking, problem-solving, and collaboration skills.

SPANISH

Spanish 1

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the Spanish-speaking world.



Spanish 2

Credit 1 credit per semester

Length 2 semesters

Prerequisite Spanish 1 or with teacher approval.

Course Description:

This course is for students who wish to continue their world language study and to refine and expand the skills learned in the beginning courses and prepare them for more advanced Spanish study. Students will learn more challenging grammar and a wider variety of vocabulary.



Spanish 3

Credit 1 credit per semester

Length 2 semesters

Prerequisite Spanish 1 and Spanish 2 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the Spanish culture and language.



Spanish 4

Credit 1 credit per semester

Length 2 semesters

Prerequisite Spanish 1, Spanish 2, and Spanish 3, or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with even greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the Spanish culture and language and to facilitate post-secondary language experience.



AP Spanish

Credit 1 credit per semester

Length 2 semesters

Prerequisite Spanish 1, Spanish 2, and Spanish 3, or with teacher approval.

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Spanish Language.

Students enrolling in AP Spanish should already have a good command of Spanish grammar and vocabulary. This course requires more extensive, in-depth training in listening, reading, speaking and writing than the fourth year course in Spanish.



Intermediate Spanish

Credit 1 credit per semester of high school credit and 4 Kirkwood Community College credits

Length 1 semester each

Prerequisite Spanish 1, Spanish 2, and Spanish 3

Open to Juniors and Seniors and must meet Senior Year Plus requirements.

Course Description:

Develops fundamental skills in Spanish through activities aimed at expressing original ideas and conveying message in correct Spanish with the aid of authentic resources. Class activities offer advanced training in listening, speaking, reading, writing, and understanding the cultures of Spanish-speaking countries. Grammar study includes a review of previously introduced topics as well as new ones.



Spanish 1 for Heritage Students

Credit 1 credit per semester

Length 2 semesters

Prerequisite See course description

Course Description:

Spanish for Heritage Students is designed specifically for students whose first language is Spanish and who have a basic fluency of the Spanish language, but may have had no or minimal formal instruction in Spanish. Reading and formal writing connected to cultural and grammar units form the basis of study.



Spanish 2 for Heritage Students

Credit 1 credit per semester

Length 2 semesters

Prerequisite Spanish 1 for Heritage Students or a comparable Spanish class

Course Description:

Spanish 2 for Heritage Students is designed specifically for students whose first language is Spanish and have a fluency of the Spanish language. Students have completed Spanish 1 for Heritage Students or a Spanish class at a similar level. Students will further their formal reading and writing skills. All units are connected to cultural and grammar instruction which forms the basis of study.



FRENCH

French 1

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the French-speaking world.



French 2

Credit 1 credit per semester

Length 2 semesters

Prerequisite French 1 or with teacher approval.

Course Description:

This course is for students who wish to continue their world language study and to refine and expand the skills learned in the beginning courses and prepare them for more advanced French study. Students will learn more challenging grammar and a wider variety of vocabulary.



French 3

Credit 1 credit per semester

Length 2 semesters

Prerequisite French 1, French 2 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with greater intensity and to continue the language refinement process, enabling the student to function with greater facility and effectiveness in the French culture and language.



French 4

Credit 1 credit per semester

Length 2 semesters

Prerequisite French 1, French 2, and French 3 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with even greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the French culture and language and to facilitate post-secondary language experience.



AP French

Credit 1 credit per semester

Length 2 semesters

Prerequisite French 1, French 2, and French 3 or with teacher approval.

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in French Language. Students enrolling in AP French should already have a good command of French grammar and vocabulary. This course requires more extensive, in-depth training in listening, reading, speaking and writing than the fourth year course in French.



French 1 for Heritage Students

Credit 1 credit per semester

Length 2 semesters

Prerequisite See course description

Course Description:

French for Heritage Students is designed specifically for students whose first language is French and who have a basic fluency of the French language, but may have had no or minimal formal instruction in French. Reading and formal writing connected to cultural and grammar units form the basis of study.



French 2 for Heritage Students

Credit 1 credit per semester

Length 2 semesters

Prerequisite French 1 for Heritage Students or a comparable French class

Course Description:

French 2 for Heritage Students is designed specifically for students whose first language is French and have a fluency of the French language. Students have completed French 1 for Heritage Students or a French class at a similar level. Students will further their formal reading and writing skills. All units are connected to cultural and grammar instruction which forms the basis of study.



GERMAN

German 1

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the cultures of German-speaking countries.



German 2

Credit 1 credit per semester

Length 2 semesters

Prerequisite German 1 or with teacher approval.

Course Description:

This course is for students who wish to continue their world language study and to refine and expand the skills learned in the beginning courses and prepare them for more advanced German study. Students will learn more challenging grammar and a wider variety of vocabulary.



German 3

Credit 1 credit per semester

Length 2 semesters

Prerequisite German 1 and German 2 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the German culture and language.



German 4

Credit 1 credit per semester

Length 2 semesters

Prerequisite German 1, German 2, and German 3 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with even greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the German culture and language and to facilitate post- secondary language experience.



AP German

Credit 1 credit per semester

Length 2 semesters

Prerequisite German 1, German 2, and German 3 or with teacher approval.

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in German Language. Students enrolling in AP German should already have a good command of German grammar and vocabulary. This course requires more extensive, in-depth training in listening, reading, speaking and writing than the fourth year course in German.



JAPANESE

Japanese 1

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the Japanese-speaking world.



Japanese 2

Credit 1 credit per semester

Length 2 semesters

Prerequisite Japanese 1 or with teacher approval.

Course Description:

This course is for students who wish to continue their world language study and to refine and expand the skills learned in the beginning course and prepare them for more advanced Japanese study. Students will learn more challenging grammar and a wider variety of vocabulary.



Japanese 3

Credit 1 credit per semester

Length 2 semesters

Prerequisite Japanese 1 and Japanese 2 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the Japanese culture and language.



Japanese 4

Credit 1 credit per semester

Length 2 semesters

Prerequisite Japanese 1, Japanese 2, and Japanese 3 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with even greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the Japanese culture and language and to facilitate post- secondary language experience.



AP Japanese

Credit 1 credit per semester

Length 2 semesters

Prerequisite Japanese 1, Japanese 2, and Japanese 3 or with teacher approval.

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Japanese Language. Students enrolling in AP Japanese should already have a good command of Japanese grammar and vocabulary. This course requires more extensive, in-depth training in listening, reading, speaking and writing than the fourth year course in Japanese.



RUSSIAN

Russian 1

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is for students who want to begin world language study to function effectively in more than one culture through a basic knowledge of the language, the people, and the cultures of Russian speaking countries.



Russian 2

Credit 1 credit per semester

Length 2 semesters

Prerequisite Russian 1 or with teacher approval.

Course Description:

This course is for students who wish to continue their world language study and to refine and expand the skills learned in the beginning courses and prepare them for more advanced Russian study. Students will learn more challenging grammar and a wider variety of vocabulary.



Russian 3

Credit 1 credit per semester

Length 2 semesters

Prerequisite Russian 1 and Russian 2 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the Russian culture and language.



Russian 4

Credit 1 credit per semester

Length 2 semesters

Prerequisite Russian 1, Russian 2, and Russian 3 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with even greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the Russian culture and language and to facilitate post-secondary language experience.



CHINESE

Chinese 1

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is for students who want to begin world language study and to enable them to function effectively in more than one culture through a basic knowledge of the language, the people, and the Chinese-speaking world.



Chinese 2

Credit 1 credit per semester

Length 2 semesters

Prerequisite Chinese 1 or with teacher approval.

Course Description:

This course is for students who wish to continue their world language study and to refine and expand the skills learned in the beginning courses and prepare them for more advanced Chinese study. Students will learn more challenging grammar and a wider variety of vocabulary.



Chinese 3

Credit 1 credit per semester

Length 2 semesters

Prerequisite Chinese 1 and Chinese 2 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the Chinese culture and language.



Chinese 4

Credit 1 credit per semester

Length 2 semesters

Prerequisite Chinese 1, Chinese 2, and Chinese 3 or with teacher approval.

Course Description:

This course is for students who wish to pursue their world language study with even greater intensity and to continue the language refinement process, enabling them to function with greater facility and effectiveness in the Chinese culture and language and to facilitate post- secondary language experience.



AP Chinese

Credit 1 credit per semester

Length 2 semesters

Prerequisite Chinese 1, Chinese 2, and Chinese 3 or with teacher approval.

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Chinese Language. Students enrolling in AP Chinese should already have a good command of Chinese grammar and vocabulary. This course requires more extensive, in-depth training in listening, reading, speaking and writing than the fourth year course in Chinese.



Physical Education

Physical Education in Cedar Rapids Community School District develops physically literate individuals who have the knowledge, skills and confidence to enjoy a lifetime of healthful physical activity within a comprehensive school physical education program. One PE course per year is required.

Introduction to Physical Education

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This class will cover CPR training, basic health concepts, introduction to all physical education courses offered (including Personal Fitness, Performance PE, Team Sports and Swimming) technology integration, use of heart rate monitors, and assessment for priority movements.

Performance PE

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This is a daily course set up to provide progressive and structured lessons for students seeking high intensity training. Students will follow a set program that is designed to help them achieve a high level of strength and fitness. Students will work on strength training as well as cardiovascular fitness, agility, speed and quickness. Students will be given a pre-test and a post-test on a variety of functional strength and fitness activities.

Personal Fitness

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course includes personal fitness activities such as Yoga, Cross Fit, Kick Boxing, Tai Chai, Pilate, Interval Training, Zumba, Step Aerobics, and Circuit Training. Each student will learn about their personal fitness levels through a variety of assessments (heart rate monitors, pedometers, etc.). Students will explore topics such as goal development, components of fitness, nutrition evaluation, and program development.

Team Fitness

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course includes team games, individual games, co-operative games and fitness activities. Each student will learn about their personal fitness levels through technology, health concepts, PE Standards, and assessments. Students will be assessed on 21st Century Skills.

Swimming

Credit 1 credit per semester

Length 1 semester

Prerequisite None, Kennedy Only

Course Description:

This course includes water safety, basic stroke development, lifetime water activities, endurance swimming, diving, and basic water survival. All levels of swimming can sign up for this course, from beginning swimmers to an advanced swimmers.

Health and Fitness 1

Credit 1 credit per semester (Teacher must hold a health endorsement)

Length 1 semester

Prerequisite None (This course can only be taken once)

Course Description:

This is a daily Health course which combines the topics of Health Education courses (nutrition, food labels, My Plate Guidelines, eating disorders, stress management, mental and emotional health, relationships, etc.) with the intention of conveying life-long wellness habits.

Health and Fitness 2

Credit 1 credit per semester (Teacher must hold a health endorsement)

Length 1 semester

Prerequisite None (This course can only be taken once)

Course Description:

This is a daily Health course which combines the topics of Health Education courses (identifying legal and illegal drugs, consequences of drug use and abuse, alcohol and tobacco education, substance abuse prevention, etc.) with the intention of conveying life-long wellness habits.

Rhythmic Movement

Credit 1 credit per semester

Length 1 semester; Grades 10-12

Prerequisite Student must be enrolled in marching band or color guard or show choir and meet proficiency requirements with the Pacer to receive credit for this course.

Course Description:

This course includes conditioning and participation in aerobic activities within their band/show choir course. These activities assist in developing increased cardiovascular endurance and will be assessed through physical fitness testing by the physical education instructor at the beginning and end of each semester by using the Pacer. Students will also be given a computer-based final exam by the physical education instructor covering basic fitness and nutrition topics (a study guide will be provided).

Fitness and Wellness 1

Credit 1 credit per semester

Length 1 semester

Prerequisite None - this course is taught through Canvas; Grades 10-12

(This course can only be taken once)

Course Description:

This Online Physical Education Canvas course is designed to be an independent, self-directed course. This course has two components: a health and wellness content component, and a fitness lab component. The health and wellness content component will cover a wide range of topics including: CPR, nutrition, drug, alcohol, tobacco, relationships, sexual health, and mental/emotional health; with the intention of conveying the importance of life-long wellness habits. The fitness lab component requires each student attend a WEEKLY 50-minute fitness lab.

Fitness and Wellness 2

Credit 1 credit per semester

Length 1 semester

Prerequisite Fitness and Wellness 1; Grades 10-12

(This course can only be taken once)

Course Description:

This Online Physical Education Canvas course is designed to be an independent, self-directed course. This course has two components: a health and wellness content component, and a fitness lab component.

The health and wellness content component will expand and take a more in depth look at topics including: CPR, nutrition, drug, alcohol, tobacco, relationships, sexual health, and mental/emotional health; with the intention of conveying the importance of life-long wellness habits. The fitness lab component requires each student attend a WEEKLY 50-minute fitness lab.

Fitness and Wellness 3

Credit 1 credit per semester

Length 1 semester

Prerequisite Fitness and Wellness 1 & 2; Grades 10-12

(This course can only be taken once)

Course Description:

This Online Physical Education Canvas course is designed to be an independent, self-directed course. This course has two components: a health and wellness content component, and a fitness lab component.

The health and wellness content component will focus on personal health through various topics including: CPR, nutrition, drug, alcohol, tobacco, relationships, sexual health, and mental/emotional health; with the intention of conveying the importance of life-long wellness habits. The fitness lab component requires each student attend a WEEKLY 50-minute fitness lab.

Fitness and Wellness 4

Credit 1 credit per semester

Length 1 semester

Prerequisite Fitness and Wellness 1, 2, & 3; Grades 10-12

(This course can only be taken once)

Course Description:

This Online Physical Education Canvas course is designed to be an independent, self-directed course. This course has two components: a health and wellness content component, and a fitness lab component.

The health and wellness content component will focus on personal health through various topics including: CPR, nutrition, drug, alcohol, tobacco, relationships, sexual health, and mental/emotional health; with the intention of conveying the importance of life-long wellness habits. The fitness lab component requires each student attend a WEEKLY 50-minute fitness lab.

Unified PE

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course design allows students with special needs to engage in healthy movement and sports activities. Peer-helpers may enroll in this class for physical education credit to assist with these activities. The chief goals of the class include improvement of each student's strength, balance and coordination.

Music

Music in Cedar Rapids Community School District fosters lifelong learners and consumers of music by providing high quality music programs that promote essential opportunities for all students, teach the whole child, develop 21st Century Skills, and instill a love and joy for music.

AP Music Theory

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

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



Band

Band/Marching Band

Kennedy – Concert Band

Jefferson – 9th Grade Band

Washington – Concert Band

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This ensemble focuses on basic instrumental techniques, tone production, music reading skills and blend/balance. Students are exposed to a variety of band literature at the beginning high school level. For those students participating in marching band during the fall semester a variety of marching band literature is performed at select football games, festivals, and contests.

Symphonic Band

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This ensemble focuses on basic instrumental techniques, tone production, music reading skills and blend/balance. Students are exposed to a variety of band literature at the beginning and intermediate high school level.

Wind Symphony

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Members are expected to exhibit strong instrumental techniques, ensemble and performance skills. This ensemble performs advanced level literature from a variety of styles and genres of instrumental music.

Color Guard

Credit ½ credit per semester

Length 1 semester

Prerequisite None

Course Description:

Membership is determined by audition. The focus is on rhythmic movement and aerobic precision. Students perform at select football games, festivals and contests.

Jazz Band 1

Kennedy – Jazz One

Jefferson – Jazz Band

Washington – Revolutionists

Credit ½ credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This ensemble focuses on improvisation and a variety of instrumental jazz techniques and styles. Jazz Band One will perform advanced jazz literature at select concerts, festivals, and contests. This class may be offered before or after school.

Jazz Band 2

Kennedy – Jazz Two

Washington – Jazz Also

Credit ½ credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This ensemble focuses on improvisation and a variety of instrumental jazz techniques and styles. Jazz Band 2 will perform intermediate or beginning level jazz literature at select concerts, festivals, and contests. This class may be offered before or after school.

Show Choir Combo

Credit ½ credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is open to students interested in accompanying show choirs. Students will attend evening rehearsals as well as show choir performances and competitions.

Orchestra

String Orchestra

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This string orchestra ensemble focuses on basic instrumental string techniques, tone production, music reading skills and blend/balance. Students are exposed to a variety of orchestral literature at the beginning high school level.

Symphony Orchestra

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This string orchestra ensemble focuses on advanced instrumental string techniques, tone production, music reading skills and blend/balance. Students perform a variety of styles and genres of advanced level string literature. There is occasional opportunity to perform with winds and percussion.

String Ensemble

Credit ½ credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This small string ensemble is designed to give advanced string instrumentalists an additional opportunity to rehearse and perform a variety of advanced literature in a professional environment. Members are expected to have excellent sense of pitch, rhythm, music reading skills and musicality.

Choir

High School Singers

Kennedy: Kennedy Singers

Jefferson: Amabile Singers and
Varsity Singers

Washington: Washington Singers

Credit ½ credit per semester

Length 2 semesters

Prerequisite None

Course Description:

Membership in this course is open to high school students interested in performing choral literature, without audition. This ensemble focuses on basic vocal and performance techniques; tone production, music reading skills and choir blend/balance. Students are exposed to a variety of choral literature at the beginning high school level.

High School Chorus

Kennedy: Kennedy Chorale

Credit ½ credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This choir is designed to build on the beginning choir ensemble foundation by improving established vocal and ensemble performance technique and developing more advanced music reading skills. Students perform a variety of intermediate level choral literature.

Concert Choir

Kennedy – Concert Choir

Jefferson – Concert Choir

Washington - Concert Choir

Credit ½ credit per semester

Length 2 semesters

Prerequisite None

Course Description:

Concert Choir members are expected to exhibit strong vocal techniques, music reading skills and performance practices. This choir performs advanced level literature from a variety of styles and genres of choral literature.

Vocal Ensemble

Kennedy – Chamber Choir and 9th Grade Select Choir

Jefferson – Meistersingers

Washington – Madrigal Singers

Credit ½ credit per semester

Length 2 semesters

Prerequisite Membership in Concert Choir, High School Chorus or High School Singers

Course Description:

The choir is designed to give advanced singers an additional opportunity to rehearse and perform a wide variety of selected advanced literature in a professional rehearsal environment. Members are expected to have an excellent sense of pitch, rhythm, music reading skills and musicality.

Vocal Jazz

Kennedy – Moonlight Express

Washington – Slice of Jazz

Credit ½ credit per semester

Length 2 semesters

Co-requisite Membership in Concert Choir, High School Chorus or High School Singers

Course Description:

Select membership in this course is open to choral students and is based on a successful audition. This select advanced ensemble performs advanced jazz choral literature. Members are expected to have an excellent sense of pitch, rhythm, music reading skills and musicality.

Show Choir A

Kennedy – Happiness Inc.

Jefferson – West Side Delegation

Washington - Momentum

Credit ½ credit per semester

Length 2 semesters

Co-requisite Year-long membership in Concert Choir, High School Chorus or High School Singers

Course Description:

This ensemble provides students with opportunities for creative expression with emphasis on advanced-level vocal production, choreography and performance skills.

Show Choir B

Kennedy – Protégé

Jefferson – Ovation

Washington - Celebration

Credit ½ credit per semester

Length 2 semesters

Co-requisite Year-long membership in Concert Choir,
High School Chorus or High School Singers

Course Description:

This ensemble provides students with opportunities for creative expression with emphasis on intermediate-level vocal production, choreography and performance skills.

Show Choir C

Kennedy – Chanteurs

Washington – Vivace

Jefferson - Ambition

Credit ½ credit per semester

Length 2 semesters

Co-requisite Year-long membership in Concert Choir,
High School Chorus or High School Singers

Course Description:

This ensemble provides students with opportunities for creative expression with emphasis on beginning-level vocal production, choreography and performance skills.

Elective

Digital Music

Credit ½ credit per semester

Length 1 semester

Prerequisite None

Course Description:

Digital Music is designed to give students the opportunity to create, edit, produce, and engage with music using a digital platform. Throughout this class, students will use sound editing programs like Soundtrap and Noteflight to understand how to manipulate sounds, create melodies, harmonies, and rhythms. This class may be taken more than once.

Music Workshop

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Music Workshop is designed to give students the opportunity to explore their musical interests. There will be flexibility for students to choose their own topics including learning a new instrument, composition, song writing, arranging, music research and college preparation/career exploration. Students are placed in Music Workshop after successful completion of an entry interview/performance assessment by music faculty. This will be offered as a one semester course with the option of repeating.

Piano Lab

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This project-based class is designed to develop students' skills in playing the piano, as well as in music literacy and music theory. Students will learn and/or improve their hand position and posture, scales, sight-reading, and facility as a pianist, as well as being exposed to a variety of piano literature. This course is open to students at all levels of experience with the instrument.

Art

Art courses in the Cedar Rapids Community School District develop student's visual literacy, creative problem solving, and critical thinking skills by expanding their technical skills in art making and through the study of art in history and culture. Students will be introduced to traditional and contemporary art and practice.

Art 101

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course focuses on developing basic visual literacy to create, describe, analyze, interrupt, and judge works of art. By learning the elements and principles of art, students will learn what visual images communicate and how to express themselves using the elements and principles of art. Art 101 is a prerequisite for all art courses including AP Studio Art and Kirkwood dual credit courses.

Drawing 1

Credit 1 credit per semester

Length 1 Semester

Prerequisite Art 101 (can be taken concurrently) or instructor approval

Course Description:

This course is for students interested in developing drawing skills with varied media and approaches. Emphasis will be given to drawing from life and helping students develop personal expression.

Drawing 2

Credit 1 credit per semester

Length 1 Semester

Prerequisite Art 101 and Drawing 1 or instructor approval

Course Description:

This course builds skills and expands concepts developed in Drawing 1. Students will be encouraged to find their own artistic voice through explorations moving from realistic to abstraction.

Painting 1

Credit 1 credit per semester

Length 1 Semester

Prerequisite Art 101 (can be taken concurrently) or instructor approval

Course Description: This course is for students who wish to develop their painting skills. Students will explore basic color theory and painting techniques using watercolor and acrylic. Projects will incorporate components from art history. Students will develop an appreciation and understanding of compositional choices in paintings.

Painting 2

Credit 1 credit per semester

Length 1 semester

Prerequisite Art 101 and Painting 1 or instructor approval

Course Description: This course builds skills and expands concepts developed in Painting 1. Students will be encouraged to find their own artistic voice through explorations moving from realistic to abstraction.

Ceramics 1

Credit 1 credit per semester

Length 1 semester

Prerequisite Art 101 (can be taken concurrently) or instructor approval

Course Description: This is a course for students wishing to learn how to create and glaze hand-built and wheel thrown pottery. Students will learn how the elements and principles of design are applied in Ceramic construction. The class will focus on developing technical and practical skills as well as becoming familiar with periods of ceramic history.

Ceramics 2

Credit 1 credit per semester

Length 1 semester

Prerequisite Art 101 and Ceramics 1 or instructor approval

Course Description: This is a course for students wishing to improve ceramics skills and expand the concepts developed in Introduction to Ceramics. Students will expand their ceramic skills into creative and abstract expressions. This class focuses on advanced methods of construction and glazing.

Sculpture 1

Credit 1 credit per semester

Length 1 semester

Prerequisite Art 101 or instructor approval

Course Description: This course is for students who wish to learn various processes, techniques and methods related to sculpture. Students will learn to sculpt both in relief and in the round using various media. Through projects and historical study students will develop an appreciation and deeper understanding of 3D art.

Photography 1

Credit 1 credit per semester

Length 1 Semester

Prerequisite Art 101; Grades 10-12 or instructor approval

Course Description: This course is for students interested in digital photography. The class will emphasize exposure manipulation through the use of aperture, shutter speed, and ISO features. Students will focus on technical and compositional skills. In addition, students will also be required to evaluate images of others through writing assignments and critiques.

Photography 2

Credit 1 credit per semester

Length 1 semester

Prerequisite Art 101 and Photography 1; Grades 10-12 or instructor approval

Course Description: This course is for students who wish to build on skills and expand concepts developed in Intro to Photography. Students will explore innovative and experimental techniques in digital photography.

Digital Art 1

Credit 1 credit per semester

Length 1 semester

Prerequisite Art 101 or instructor approval

Course Description: Through this course, students will learn to use the computer to visually communicate their ideas and become better prepared to participate in our ever-changing age of technology. Students will sharpen their drawing skills, improve their methods of composition, and improve their creative thinking skills. Students will use computers, digital devices, Adobe software, pen and tablet, etc. to explore digital art techniques. Topics may include the design and production of digital imagery, graphic design, photo manipulation, motion graphics, digital drawing, multimedia, and copyright/ethical issues

Illustrator I

Credit 1 credit per semester

Length 1 semester

Prerequisite Grades 10-12

Course Description: Introduces Adobe Illustrator and its application in graphic communication. Learning activities include Adobe Illustrator tools as they apply to object (vector) based files, as well as Adobe Illustrator filters and layers. Students learn basic drawing and tracing techniques, creating line art, logos and learning how to simplify art work through stylizing. Creative use of type is also explored. Students learn how to set up color for reproduction. They also learn how to save and manage files created using these programs, as well as how these files interact with page layout and paint (raster) programs.



Digital Imaging

Credit 1 credit per semester

Length 1 semester

Prerequisite Grades 10-12

Course Description: Introduces electronic image editing software using Photoshop. Concepts covered include basic scanning techniques for grayscale and line art images; proper manipulation procedures required for various output sources, including input and output resolutions, file size, multiple file-saving formats, simple image enhancements and creating duo-tones; and creative application of Photoshop.



AP Studio: 2D Design AP Studio: 3D Design

AP Studio: Drawing

Credit 1 credit per semester

Length 2 semesters

Prerequisite Art 101 plus three additional art courses (or permission of the teacher)

Course Description: These courses are for students in advanced studies of art making. These college level courses are designed to prepare students for the Advanced Placement Studio Art Portfolios. Students will choose one area of interest to develop their portfolio. This course is a year-long class.



AP Art History

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description: This college level course is designed to prepare students for the Advanced Placement Exam in Art History. In this course, students examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. They learn to look and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way.



Art History

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description: Kirkwood concurrent course. In this course, students examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. They learn to look and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way.



Career Technical Education

INDUSTRIAL TECHNOLOGY

Robotics and Automation

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description: This one semester class serves as an introduction to the rapidly growing field of robotics and automated manufacturing. Students will work in teams to complete modular units of instruction, learning the basic operation of CNC mills, lathes, routers, robotics and lasers. This class can be used as a foundation for further study in Computer Integrated Manufacturing and Project Lead the Way courses.



Advanced Manufacturing and Entrepreneurship

Credit 1 credit per semester

Length 1 semester

Prerequisite Woodworking or Construction and Teacher Recommendation

Course Description: This course covers the theory of operation of machining tools as it applies to manufacturing. Safety is taught as it applies to each machine process. Proper terminology of the machinist trade is emphasized. Covers use of basic measuring tools, layout and inspection tools, and bench work. Safe operation of machine tools is taught. Emphasis is on following blueprints and holding tolerances through the use of a variety of processes to produce a product.



Consumer Auto Mechanics 1

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description: Consumer Auto Mechanics is a semester course intended to introduce students to the theory of operation, design, and maintenance of the automobile. The course will look at the purchase, maintenance and repair of the automobile from the point of view of a car owner. The basic systems of the automobile will be covered and the student will participate in hands on labs related to common maintenance and repair including safety, tools, equipment, and systems such as cooling, lubrication, and battery/ignition.



Auto Mechanics 2

Credit 1 credit per semester

Length 1 semester

Prerequisite Consumer Auto Mechanics and Teacher Recommendation

Course Description: This course is intended for students who are thinking about a career related to auto mechanics. Students will learn to diagnose common automotive problems and will be introduced to repair of several systems of the automobile including charging systems, starting systems, air conditioning, brakes, suspension, wheels, tires, drive train, and alignment and steering.



Woodworking 1

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description: This course covers the use of basic measuring tools, layout, and the fundamentals of woodworking with an emphasis on the correct and safe use of tools and machines. Students will learn to read drawings, create plans, complete mathematical calculations, use precision measuring tools, the processes of planning, drawing, and constructing basic wood products.



Woodworking 2

Credit 1 credit per semester

Length 1 semester

Prerequisite Woodworking and Teacher Approval

Course Description: This course explores a greater variety of tool and machine usage along with more complex applications. Correct and safe use of equipment is emphasized as students develop technical knowledge and skills with design and build projects. Students have the opportunity to build specialized projects with their purchased materials.



Construction 1

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description: This course covers the use of basic measuring tools, layout, and the fundamentals of construction with an emphasis on the correct and safe use of tools and machines. Students will explore the construction industry from the architect's drawings and surveying building sites to the finishing procedures on a structure. Framing and finish carpentry, drywall, electrical, and plumbing will be studied. Students will participate in construction projects and activities.



Construction 2

Credit 1 credit per semester

Length 1 semester

Prerequisite Construction and Teacher Approval

Course Description: This course explores the more detailed concepts of the construction industry from the architect's drawings and surveying building sites to the finishing procedures on a structure. Students will design, estimate and build construction projects and activities. Framing and finish carpentry, plumbing, estimating, and electrical will be studied.



Building Trades

Credit 2 credits per semester

Length 2 semesters – 2 periods in length

Prerequisite 11th – 12th grade Application Process with Woods or Construction Teacher Recommendation

Course Description: Building Trades students will participate in the Cedar Rapids Student-built House project. The goal of the Student-built House is to allow students to develop and practice construction skills while building a single-family house. This year-long, AM or PM, class for students who want to be active and do things. The class meets away from school at a construction building site. During the school year students will be introduced and participate in various aspects of residential home construction including framing, plumbing, electrical, HVAC, windows and doors, roofing, siding, drywall, paint, trim carpentry, and landscaping. At the end of the school year students will have the skills and knowledge to continue their education in the field of construction or to enter an entry level construction job. Students will be required to provide their own hand non-powered hand tools and tool belt. The tool list is included with the application.



Fundamentals of Welding

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description: This is a one semester course recommended for students 9-12 who are interested in an introduction to welding and cutting processes. In this course the student will be introduced to oxyacetylene cutting and plasma arc cutting. The welding processes introduced include oxyacetylene, electric arc, metal inert gas (MIG), and tungsten inert gas (TIG). The course includes some text assignments, demonstrations, and a great deal of lab Work.



Power and Energy (Electric Car)

Credit 1 credit per semester

Length 1 semester

Course Description: To offer students an opportunity to work in a real business. The course offers very high-level challenges for students in design, engineering, promotion, publicity, accounting and production. Development of skills in goal setting and completion, reliability, and teamwork are a big part of this experience. Content: Much of the content of this course is the application of skills learned in other courses particularly math, science, language arts, tech education, or accounting. Students develop a team, set goals, and research solutions for their part of the company. The overall goal is to promote, develop, build, display, and compete with small one-passenger electric vehicles. This course is repeatable.



PROJECT LEAD THE WAY (PLTW)

Introduction to Engineering Design

Credit 1 credit per semester

Length 2 semesters

Prerequisite Concurrent enrollment in Algebra One and LA 9 is highly recommended for this course.

Course Description:

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.



Principles of Engineering

Credit 1 credit per semester

Length 2 semesters

Prerequisite Introduction to Engineering Design is highly recommended prior to this course.

Course Description:

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.



Aerospace Engineering

Credit 1 credit per semester

Length 2 semesters

Prerequisite Introduction to Engineering Design and Principles of Engineering is highly recommended prior to this course.

Course Description:

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.



Civil Engineering and Architecture

Credit 1 credit per semester

Length 2 semesters

Prerequisite Introduction to Engineering Design and Principles of Engineering is highly recommended prior to this course.

Course Description:

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.



Computer Integrated Manufacturing

Credit 1 credit per semester

Length 2 semesters

Prerequisite Introduction to Engineering Design and Principles of Engineering is highly recommended prior to this course.

Course Description:

This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system.



Digital Electronics

Credit 1 credit per semester

Length 2 semesters

Prerequisite Introduction to Engineering Design and Principles of Engineering is highly recommended prior to this course.

Course Description:

This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.



Engineering Design and Development

Credit 1 credit per semester

Length 2 semesters

Prerequisite Introduction to Engineering Design and Principles of Engineering is highly recommended prior to this course.

Course Description:

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.



Engineering Essentials

Credit 1 credit

Length 1 semester

Prerequisite None

Course Description:

Engineering Essentials is a semester course designed to be a high school student's first exposure to the PLTW Engineering program and is appropriate for students in grades 9-12. In Engineering Essentials, students explore the work of engineers and their role in the design and development of solutions to real-world problems.



Computer Science Essentials

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

In Computer Science Essentials, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.



FAMILY AND CONSUMER SCIENCE

Explore Family and Consumer Science

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This is an introductory course for any student to take in the area of Family & Consumer Sciences. The course will explore units on Child Development, Fashion, Interior Design, Foods, and Nutrition. Students will be involved in projects, hands-on learning experiences, and fun while learning practical life skills. Student leadership (FCCLA) will be a part of this course.



Foods Fundamentals and Nutrition

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will focus on nutrition, measurements, kitchen safety, food safety, cooking methods, collaboration, and time management. Students will learn to follow recipes and prepare nutritious foods. Available to 10th-12th grade students.



Culinary Techniques

Credit 1 credit per semester

Length 1 semester

Prerequisite Food Fundamentals and Nutrition

Course Description:

Students will explore food science principles, menu planning, advanced cooking methods, and extend what they learned in Food Fundamentals and Nutrition. Available to 10th-12th grade students.



ProStart 1

Credit 2 credits per semester

Length 1 semester – 2 periods in length

Prerequisite Food Fundamentals and Nutrition

Course Description:

Units include: overview of the restaurant and foodservice industry, a safe operation, introduction to the kitchen, culinary exploration, and service and management. Covers two periods, back to back/semester. ServSafe Manager Certificate training available. Prerequisite: Food Fundamentals and Nutrition.



ProStart 2

Credit 2 credits per semester

Length 1 semester – 2 periods in length

Prerequisite ProStart 1

Course Description:

Units include: reaching your customers, culinary exploration, managing costs, today's operational concerns, meat, poultry, and seafood, baking and desserts. Covers two periods, back to back/semester. Prerequisite: ProStart 1. If students pass the articulation tests for ProStart 1 and ProStart 2, receive ServSafe manager certification, and do the ProStart internship, college credit is available through colleges in Iowa and throughout the U.S.



ProStart Internship

Credit 1 credit per semester

Length 2 semesters

Prerequisite ProStart

Course Description:

Ideally taken between ProStart 1 and ProStart 2 courses. Must be taken if interested in college credit and articulation. Classroom experience is necessary to learn the foundational culinary and management skills; nothing beats real-life experience gained by working in the industry. ProStart students learn how to be an industry professional through hands-on work under the direction of a mentor. Mentors help students make the connection between their present performance and their future career. Students must have a minimum of 400 hours of paid work experience. They must complete 52 of the 75 competencies on the Student Work Experience Checklist, to be determined by employers.



Early Childhood Development

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will learn about the social, emotional, physical, and mental development of infants, toddlers and preschool children. Students will explore guidance techniques which nurture and enrich a child's life. This class is a prerequisite for Early Childhood Development Internship. Available to 9th-12th grade students.



School Age Child Development

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will learn about the social, emotional, physical, and mental development of children ages 5-12 years. Students will explore family dynamics, benefits of play, and effective guidance strategies. This class is a prerequisite for School Age Child Development Internship. Available to 9th-12th grade students.



Personal Development

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will learn skills involving self-discipline, effective communication, making good decisions, and improving their ability to get along with others. Students will explore employability skills, careers, and leadership development. Available to 9th-12th grade students.



Interior Design

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will learn design principles and apply them to create function and beauty in their environment. Emphasis is placed on workplace skills, universal design elements, drawing floor plans and architectural features, and furniture arrangement. Available to 9th-12th grade students.



Fashion Design

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will learn basic design principles, garment details and construction. The course encompasses the fashion design process from inspiration through production. Available to 9th-12th grade students.



School Age Child Development Internship

Credit 1 credit per semester

Length 1 semester

Prerequisite School Age Child Development

Course Description: Students will gain real world experience by providing academic assistance to individual children in an offsite setting. Students will collaborate with professionals in education and training related fields. Class will include weekly reflections and academic applications. Available to 9th-12th grade students. Limited space is necessary due to having to place students in internships and perform site visits. Class capacity is recommended at 20.



Early Childhood Development Internship

Credit 1 credit per semester

Length 1 semester

Prerequisite Early Childhood Development

Course Description: Students will gain real world experience by providing academic assistance to individual children in an offsite setting. Students will collaborate with professionals in education and training related fields. Class will include weekly reflections and academic applications. Available to 9th-12th grade students. Limited space is necessary due to having to place students in internships and perform site visits. Class capacity is recommended at 20.



Business and Computer Science

Personal Finance

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students learn important concepts regarding personal finances. Topics may include saving, investments, credit, housing, automobiles, insurance, and consumer rights.



Personal Finance

Credit 1 credit per semester

Length 1 semester

Prerequisite 11th and 12th Grade Students

Course Description:

Students learn important concepts regarding personal finances. Topics may include saving, investments, credit, housing, automobiles, insurance, consumer rights, employee pay and benefits, filing federal income tax returns, budgeting, checking accounts and banking. Students will earn both high school and Kirkwood credit.



Advanced Financial Decision Making

Credit 1 credit per semester

Length 1 semester

Prerequisite 11th and 12th Grade Students

Course Description:

This course introduces students to money management and personal financial tasks that students will use in everyday life. Students will learn how to earn money through career search and method of payments, manage money through banking and budgeting, make money grow through investments such as stocks and bonds, make sound purchasing decisions, and be a responsible user of credit.



Sales and Marketing

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Sales and Marketing is an all encompassing look at today's business model and focuses on areas of study including, but not limited to: market planning, selling, promotion, distribution, pricing, marketing research and brand development. Students will also learn about human relations skills, job application procedures, how to succeed on the job and the sales, attitudes and techniques needed for success in sales.



Introduction to Business

Credit 1 credit per semester

Length 1 semester

Prerequisite 11th – 12th Grade Students

Course Description:

In this course, students will be introduced to numerous business and management strategies in the areas of Marketing, Human Resources, and Finances. We will also explore different types and sizes of businesses. Students should be prepared for an interactive class that will include hands-on activities and group discussions. Students will earn both high school and Kirkwood credit.



Business Law 1

Credit 1 credit per semester

Length 1 semester

Prerequisite 11th – 12th Grade Students

Course Description:

Students learn the basics of the civil and criminal justice system, torts, contracts, bailments, and commercial papers.



Accounting 1

Credit 1 credit per semester

Length 1 semesters

Prerequisite 10th – 12th Grade Students

Course Description:

The students learn to analyze business transactions and make simple financial statements for a service-type, one-owner business. Students learn to record, classify and summarize business activities for a one-owner merchandising business.



Accounting 2

Credit 1 credit per semester

Length 1 semesters

Prerequisite Accounting 1

Course Description:

The students learn to analyze business transactions and make simple financial statements for a service-type, one-owner business. Students learn to record, classify and summarize business activities for a one-owner merchandising business.



Money Management

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students receive instruction in money management which includes employee pay and benefits, filing federal income tax returns, budgeting, checking accounts and banking.



Entrepreneurship – How to Run A Business

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will explore the process of owning a business. Topics include selecting a product or service to sell. Determining who the customers will be, learning how to market the business, obtaining financing, managing employees and more.



Marketing Education

Credit 1 credit per semester

Length 2 semesters

Prerequisite 10th – 12th Grade Students

Course Description:

This course includes orientation to marketing education and Career Technology Student Organization (CTSO), human relations, business ethics, Internet, marketing, merchandising, sales promotion, display, marketing math, oral and written communication and entrepreneurship.



Video Game Marketing and Design

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

This exciting course exposes students to all aspects of promotion and marketing related to video games. It also exposes students to simple programming that they can use to understand and create their own video games. This course is open to all students but is especially well suited to any student seeking a career in business, marketing, computer software engineering or programming.



Advanced Video Game Marketing and Design

Credit 1 credit per semester

Length 1 semester

Prerequisite Video Game Marketing and Design (10th – 12th Grade only)

Course Description:

Students will exhibit advanced understanding of their game or mile application and present their project to their peers.



Sports and Entertainment Marketing

Credit 1 credit per semester

Length 1 semester

Prerequisite 10th – 12th Grade

Course Description:

Students will explore the dynamic topic of sports and entertainment marketing. The basic functions of marketing are applied to this hugely popular subject. Students will evaluate marketing strategies used by successful sports and entertainment marketing firms, investigate Internet marketing, explore advertising and promotion as well as examine legal and ethical issues in the sports and entertainment field. In addition, students will complete a professional sports management simulation overseeing all aspects of the organization.



Real Estate Marketing

Credit 1 credit

Length 1 semester (spring semester only)

Prerequisite 10th – 12th Grade

Course Description:

This course helps students learn the basics of real estate sales and marketing. Working with local real estate agents in conjunction with the Student Built House, students learn real-life real estate marketing and sales concepts and skills. Students will utilize learning to design and implement a marketing plan for the Student Built House.



Computer Science 1

Credit 1 credit per semester

Length 1 semester

Prerequisite Algebra 1 completion is recommended.

Course Description:

This course is a fun introduction to computer programming using Scratch MIT, Alice and Mobile Application Development Software. No previous programming experience is required.

Computer Science 2

Credit 1 credit per semester

Length 1 semester

Prerequisite Computer Science 1 is highly recommended but not required

Course Description:

Students will continue to explore and create Mobile Applications for the Android Operating System (or other mobile operating systems upon instructor approval). In addition, students will learn Java programming and compilation. This is an ideal course for students planning on taking AP Computer Science the following year or studying computer science in college.

School-Based Enterprise

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will be involved in the continued development and on-going operations of the student-run business. Students will learn customer service and selling skills in the classroom and develop & hone them while working in the store. In addition, students will spend time on developing product mix, price, and promotion using social media, email, and website design. Activities may include (but are not limited to): research and development, market & product planning, promotion, pricing, merchandising, selling, management, distribution, and financial analysis. Skills needed to be successful include: creative and logical thinking, timeliness, dependability, willingness to work as a team, effective communication, attention to detail, ethical behavior, and professional and mature demeanor when working with customers, advisors, and individuals in positions of authority.

Business Fundamentals

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will explore an overview of the study of business. It will allow students to see and briefly experience all aspects, including Business Ownership and Entrepreneurship, Management and Organization, Human Resources, Marketing, Finance and Accounting.

AP Computer Science A (Java)

Credit 1 credit per semester

Length 2 semesters

Prerequisite Algebra 2

Computer Science or Advanced Computer Science

Course Description:

This college-level class is designed to prepare students for the Advanced Placement Exam in Computer Science. This course is for college bound students, especially those planning to major in computer science, engineering, or the physical sciences to prepare students for AP testing and possible accreditation in college level computer science courses. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. It emphasizes both object-oriented and imperative problem solving and design.



AP Computer Science Principles

Credit 1 credit per semester

Length 2 semesters

Prerequisite Computer Science or Advanced Computer Science or Instructor approval

Course Description:

AP Computer Science Principles introduces you to the essential ideas of computer science with a focus on how computing can impact the world. Along with the fundamentals of computing, you will learn to analyze data, information, or knowledge represented for computational use; create technology that has a practical impact; and gain a broader understanding of how computer science impacts people and society.



Web Design Principles

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

Students will learn to use web authoring software to create and manage professional quality websites without the need for programming skills. Students will take an active part by researching and presenting group projects and working in teams to create and present a website.

Computer Essentials

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

This course covers the five main career paths in Information Technology. PC Hardware, Graphic Design, Web Page Design, Computer Networking and Computer Programming. Each will be covered in a fun exploratory manner. The students will produce, store, edit, retrieve, and print documents using word processing, database, spreadsheet, and desktop publishing applications with proper formatting and proofreading. They will also learn to use the Internet as a resource.

Computer Coding 1

Credit 1 credit per semester

Length 1 semester

Prerequisite Algebra 1 completion is recommended.

Course Description:

This course is designed for students interested in the ever-growing field of computer coding. The language of computers is fast becoming a language for businesses and technology in the 21st Century. Students will be provided with hands-on learning experiences that will allow them to learn how to write computer code as they move through the curriculum. Students will learn a variety of coding languages as they develop their own applications.

Computer Coding 2

Credit 1 credit per semester

Length 1 semester

Prerequisite Computer Coding

Course Description:

This course is designed for students interested in advancing their skills in the ever-growing field of computer coding. The language of computers is fast becoming a language for businesses and technology in the 21st Century. Students will be provided with hands-on learning experiences that will allow them to write computer code as they move through the curriculum. Students will learn a variety of coding languages as they develop their own applications.

AP Capstone

AP Capstone is built on the foundation of two courses – AP Seminar and AP Research and is designed to complement and enhance the in-depth, discipline-specific study provided through AP courses. It cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.

AP Seminar

Credit 1 credit per semester

Length 2 semesters

Prerequisite Open to Juniors and Seniors

Course Description:

AP Seminar is a foundation course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision to craft and communicate evidence-based arguments.



AP Research

Credit 1 credit per semester

Length 2 semesters

Prerequisite AP Seminar

Course Description:

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of approximately 4,000 – 5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.



PACT

imPACT

Credit 1 elective credit per semester

Length 1 semester

Course Description:

You are one of two billion young people in our world. You are inherently powerful and capable of incredible humanity. You teach others. You inspire others. You are truly leading the way. Throughout imPACT you will cultivate your strengths, pursue your passions, and discover your ability to positively influence others. You will participate in activities that build leadership skills—critical and creative thinking, problem solving, team building, and communication. You will engage in a personal learning journey that develops multiple perspectives, empathy, and global awareness through a service-learning capstone project. Available to PACT students in grades 9 and 10.

How College Works

Credit Kirkwood concurrent course

Length 1 semester

Course Description:

Explores individual strengths, strategies for solidifying personal responsibility, college readiness/academic success strategies, career readiness/vocational goals for students as they identify a college program or major. Emphasizes differences between high school and college expectations. Identifies appropriate career areas. Offers aids in taking and using placement tests for college admission and personal financial management.



English Language Learners

ELL: Advanced Writing

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is for ELL students who have not met exiting requirements to exit our ELL program. This is for students who have been enrolled in our ELL program for many years and have already completed ELL levels 4, and 5, but are not yet proficient in English. This course addresses the need to improve their reading and writing skills to move toward proficiency in English.

ELL: LA Level 5

Credit 1 credit per semester (Language Arts credit)

Length 2 semesters

Prerequisite None

Course Description:

This course is for ELL students who are working to continue their English skills in reading, writing, listening and speaking. These students have typically completed ELL Level 4 or have tested accordingly to be placed in Level 5.

ELL: LA Level 4

Credit 1 credit per semester (Language Arts credit)

Length 2 semesters

Prerequisite None

Course Description:

This course is for ELL students who are working to continue their English skills in reading, writing, listening and speaking. These students have typically completed ELL Level 3 or have tested accordingly to be placed in Level 4.

ELL: LA Level 3

Credit 1 credit per semester (Language Arts credit)

Length 2 semesters

Prerequisite None

Course Description:

This course is for ELL students who are working to continue their English skills in reading, writing, listening and speaking. These students have typically completed ELL Level 2 or have tested accordingly to be placed in Level 3.

ELL: LA Level 2

Credit 1 credit per semester (elective credit)

Length 2 semesters

Prerequisite None

Course Description:

This course is for ELL students who are working to continue their English skills in reading, writing, listening and speaking. These students have typically completed ELL Level 1 or have tested accordingly to be placed in Level 2.

ELL: LA Level 1

Credit 1 credit per semester (elective credit)

Length 2 semesters

Prerequisite None

Course Description:

This course is for ELL students who are working to continue their English skills in reading, writing, listening and speaking. These students have typically completed Newcomers or have tested accordingly to be placed in Level 1.

Study Skills for New AP and Kirkwood Concurrent Students

Credit 1 credit per semester

Length 1 semester

Course Description:

This course is a one semester course geared towards students thinking of taking AP/ Kirkwood courses, or new to AP/Kirkwood courses. Students will learn brain-based learning, studying, and test taking techniques as well as gain a system of support from peers and staff.

Student Involvement Opportunities

Students in the Cedar Rapids Community School District have many opportunities to become involved in their school community and learn many valuable skills.

Literary Magazine

Students can earn credit for this course, but the credit does not accumulate toward minimum elective credit needed for graduation.

Credit ½ credit per semester

Course Description:

In this product-based learning environment, students will use critical thinking and discussion skills to evaluate literary elements and style to critique student-created literature and art. Students will learn and utilize an editorial process to determine what is published in the school literary magazine. Those with a creative side will also have the opportunity to submit work for consideration.

Service Learning and Leadership

This course was previously named Student Government

Credit ½ credit per semester

Course Description:

In this service, oriented class students will develop leadership skills as they identify school and community needs and work with local agencies to address those needs. Students will complete service hours outside of the classroom setting as a requirement of this course.

Service Learning and Leadership: MVP

Credit ½ credit per semester

Length Every other day during the semesters

Prerequisite Must be on the MVP Mentor Team

Course Description:

The course offers students the opportunity to learn about, understand, and respond to gender-based violence with an emphasis on bystander models of prevention and intervention. This course is designed for students who are interested in research and prevention/intervention strategies related to gender/cultural norms, abuse, teen dating violence, harassment, sexual assault/rape and homophobia as facets of men's violence against women. Students will have the opportunity for outreach in the school and community by conducting service learning projects related to domestic violence awareness and prevention. Students in the course will be expected to be on the schoolwide MVP team and attend all team meetings and freshmen homeroom sessions. This course is not a requirement to be on the MVP team.

Student Help Desk

Credit ½ credit per semester

Length Every other day during the semesters

Prerequisite None

Course Description:

The course will build students' experiences with information technology and repair of district owned technology hardware, and how to work in a customer service environment. This will be a field-based opportunity in order to allow students to do authentic work. Students will be able to determine potential solutions to solve simple hardware and software problems using common troubleshooting strategies, and develop guidelines that convey systematic troubleshooting strategies that others can use to identify and fix errors. Students will also enhance their ability to communicate and collaborate.

Kirkwood Community College

Linn County Regional Center

Students may enroll in courses through Kirkwood Community College at the Linn County Regional Center located at 1770 Boyson Road, Hiawatha, Iowa. Courses taken through the Linn County Regional Center are eligible for both high school credit as well as college credit.

Students who wish to enroll at the Linn County Regional Center may find more information at Kirkwood's website.

[Kirkwood Linn County Regional Center Webpage](#)

The Kirkwood Career Academy Program of Studies is linked below. This course list is subject to change by Kirkwood Community College.

[2020-2021 Kirkwood Linn County Regional Center Program of Studies](#)

Metro High School

Metro's educational program is designed to provide a variety of learning options to meet the Cedar Rapids School District's graduation requirements. Our guiding philosophy is to provide a quality education to students that rival exterior challenges in their lives. We are respectful of diversity for individuals and groups, and teach the values of our democratic society. Kindness, respect, honesty, and cooperation are central to our success as a community of learners. Metro thrives on the potential to far exceed expectations and to produce learners and leaders, who refuse to be average, overcome obstacles, and blazing trails to make great impacts in our community and beyond.

In addition to the same core courses being offered at other high schools, Metro offers the following courses:

Community Based Art

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

This course focuses on the art making process, student collaboration and service learning through community-based art projects. Class projects will vary depending on the opportunities provided during any given term. Class projects may include collaborating with toddlers from Metro Child-care, or drawing with seniors. Students may also create artwork that will be displayed in the community, such as murals painting.

Project Based 2-D

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

This course is for students who like to draw. Students will choose from a variety of themes and subject matter for each project. Students will experiment with different drawing, painting and mixed media techniques to create original artwork.

Art and Technology

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

Students will be introduced to Adobe Photoshop and Illustrator to create unique pieces of artwork. Students will consider, select, apply, and evaluate a range of subject matter, symbols and ideas. Students will make connections between visual arts and other disciplines, careers and emerging technologies.

Art in History

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

Students will develop an understanding and knowledge of diverse historical and cultural concepts of architecture, sculpture, painting and other media. Through a differentiated and layered curriculum, students will examine and critically analyze major forms of expression from the past and the present from a variety of cultures.

Industrial Design and Digital Art

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

This is a co-taught elective credit course between art and industrial tech. This class is for students interested in computer generated art, graphic design and industrial design. Students will be introduced to a variety of different types of software to create digital drawings which will be used to create objects on the CNC machine, laser cutter and 3-D printer.

Teen Issues - Women

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

This interdisciplinary elective course explores society, media, and history from women's perspective using project-based, collaborative learning and creative options for goal-setting, personal reflection and assessment.

Teen Issues - Men

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

This interdisciplinary elective course explores society, media, and history from men's perspective using project-based, collaborative learning and creative options for goal-setting, personal reflection and assessment.

Environmental Science

Credit 1 credit per semester

Length 2 semesters

Prerequisite

Course Description:

This course is designed to develop an understanding of essential science concepts including properties of matter and living organisms. Scientific problem solving skills will be developed within the context of environmental science.

Preparation to Graduate

Credit 1 credit per semester

Length 1 semester

Prerequisite

Course Description:

Graduating seniors engage in post-secondary preparation strictly designed for success after graduation. Course curriculum includes career development, continuing education process, employment skills, personal skills development, and independent skills development.

Cedar Rapids Virtual Academy

The goal of the Cedar Rapids Virtual Academy (CRVA) is to provide students with non-traditional educational opportunities as they pursue a high quality education and achieve their academic goals.

CRVA is a remote learning option for students. Courses at CRVA are taught through Edgenuity (go at your own pace) and by teachers providing direct, daily remote instruction.

While enrolled in classes at CRVA, students remain a member of their local high school. This allows students to join clubs, play sports, and participate in a variety of activities offered at their local high school.

Courses taught through Edgenuity (courses with course numbers starting with a “Z”) are not currently approved for NCAA eligibility. CRVA courses that meet daily via video conferencing, (courses with course numbers that start with “V”) are approved for NCAA eligibility. The table below lists the “Z” courses.

Algebra 1	Consumer and Applied Math	Intro to PE	Physics	World History
Algebra 2	Earth Science	LA 9	Psychology	World Humanities and Composition
Algebra Prep	Ecological Problems	LA 10	Sociology	Pre-Calculus
American Government	Economics	Personal Finance	Spanish 1	
Art in History	Finite Topics with Stats	Personal Fitness	Spanish 2	
Biology	Foundations of Art	Phys Sci: Concepts in Chem	US History	
Chemistry	Geometry	Phys Sci: Concepts in Physics	US Humanities and Comp	

Additional Learning Opportunities



Iowa BIG

Iowa BIG is an innovative high school program open to any 10-12 enrolled Cedar Rapids high school student. Currently, Iowa BIG is a partnership of the Cedar Rapids and College Community School Districts. Students enrolled in these two districts and 5 high schools may opt for this learning model by taking both select core academic and elective courses through BIG.

Students tap into their own passions and interests to take on community, business, or student-pitched projects where they learn and apply the Iowa Core standards tied to their coursework. Students work directly with community and business mentors and coaches as well as staff to build a strong resume of experiences and expertise for career and college preparation. Iowa BIG's hands-on, highly-contextualized learning model helps students become socially connected to their community and learn more about careers and businesses.

Students enrolled in BIG earn accredited course credits like any other high school course. Iowa BIG is a competency-based program. Competency-based learning operates under the premise that while it is important to “know” things, it is vital to be able to “do” things with that knowledge. BIG asks students to apply their learning in contextualized situations and master various skills over time.

Students enrolled at BIG are responsible for learning and demonstrating the exact same standards as students in traditional courses. In addition, students gain important learning around 21st century concepts like: being resilient, learning from missteps, making quick adjustments, dealing with conflict, managing meetings, networking, and public speaking to name only a few.

Iowa BIG is a great option for students who:

- want to build a resume of experiences to help them stand out in competitive scholarships and applications
- are looking for a different way to engage in learning and school
- for whatever reason, have lost their love of learning and/or interest in school

Iowa BIG is reserved for sophomores, juniors, and seniors and provides transportation to Iowa BIG, located in the heart of the NewBo Neighborhood.

BIG has both an AM and a PM session and students taking BIG are encouraged to sign up for 4 credits and blocks and, at a minimum, 3 periods a day.

*First-year BIG students are required to take Introduction to the Agile Mindset and second and third year students are required to take Advanced Agile Mindset. Agile is a project and team management approach used by over 70% of American businesses and organizations.

To learn more about Iowa BIG, please visit www.iowabig.org, on FaceBook, and Twitter and Instagram @iowabig. You can also reach out to lseyfer@iowabig.org with questions.

Courses

Key: C = Core

E = Elective courses

W = Weighted Course

Math/Science Credits	Language Art Credits
Unified Physics (C)	Language Arts 10 (C)
Ecological Problems (E/C*)	Advanced Language Arts 10 (C)
Honors Scientific Research and Design (E,W)	US Humanities and Composition (C)
Computer Science (E)	Perspectives in Literature and Composition (C)
Adv. Computer Science (E)	
Finite Math & Statistics	

Social Studies Credits	Business Credits
<p>Economics (C)</p> <p>Government (C)</p> <p>Psychology (E)</p> <p>Sociology (E)</p> <p>US History (C)</p> <p>Using Tech to Solve Social Issues (E,W)</p> <p>Introduction to the Agile Mindset (E)</p> <p>Advanced Introduction to the Agile Mindset (E)</p>	<p>Advanced Financial Decision Making (E)</p> <p>Sales and Marketing (E)</p> <p>Entrepreneurship (E)</p>

Iowa BIG Course Descriptions

Language Arts 10

Course Number BIGELA XX, BIGELA XX

Credit 1 credit per semester

Length 2 semesters

Prerequisite LA 9 or Advanced LA 9

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students will learn close analytic reading skills in literary and informative texts; how to write argument, informative/explanatory, and narrative texts; how to support opinions in speaking and writing with specific details drawn from sources; and will study the rules and craft of language. Attention will be given to acquisition of academic vocabulary as well as deepened understanding of both general vocabulary and vocabulary related specifically to the study of language arts.



CBE

Advanced Language Arts 10

Course Number BIGELA XX, BIGELA XX

Credit 1 credit per semester

Length 2 semesters

Prerequisite LA 9 or Advanced LA 9

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students will learn close analytic reading skills in literary and informative texts; how to write argument, informative/explanatory, and narrative texts; how to support opinions in speaking and writing with specific details drawn from sources; and will study the rules and craft of language. Attention will be given to acquisition of academic vocabulary as well as deepened understanding of both general vocabulary and vocabulary related specifically to the study of language arts.



CBE

Perspectives in Literature and Composition

Course Number BIGELA401, BIGELA402

Credit 1 credit per semester

Length 2 semesters

Prerequisite LA 9 or Advanced LA 9 and LA 10 or Advanced LA 10

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students will study, explore, and contextualize recurring themes in texts from the United States and around the world to understand how they impact our work, community, and society. Literary work, will, for the most part, be selected from texts published since 1950 and will include fiction and non-fiction, print and non-print sources. Resources will include traditional academic and digital resources and a community of experts and practitioners. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



United States History

Credit 1 credit per semester

Length 2 semesters

Prerequisite None

Course Description:

This course is required for graduation. AP United States History may be taken in place of this course. This course surveys United States history from 1900-present via a focus on inquiry and historical thinking skills embedded in the Iowa Core Social Studies Standards. It places emphasis on the evolution of political, social, and economic institutions. Additionally, the course examines diverse communities of people in American society in the context of a multicultural environment. This course emphasizes the development of critical learning and thinking skills.



US Humanities and Composition

Course Number BIGELA301, BIGELA302

Credit 1 credit per semester

Length 2 semesters

Prerequisite LA 9 or Advanced LA 9 and LA 10 or Advanced LA 10

Course Description:

This course is designed to help students reach grade-level, Iowa Core College and Career Readiness Standards in Reading/Literature, Reading/Informational Text, Writing, Speaking and Listening, and Language. Students will apply reading and research, writing, speaking, and listening in authentic, real-world contexts to complete projects and tasks. Students will also explore literature, music, visual arts, and/or dance of the United States and see how it shapes our culture, influences perspectives and change, and tells the American story. Resources will include traditional academic and digital resources and a community of experts and practitioners. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



Advanced Professional Studies

Course Number BIGBUS051

Credit 1 credit per semester

Length Up to 4 credits

Prerequisite None

Course Description:

This course provides students the opportunity to engage in in-depth and more sustained projects in professional business, community, and/or government settings. Students will engage in pursuing answers to professional problems and projects while being immersed in a professional work environment. Development of 21st century and employability skills will be a strong focus of this course. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



Using Tech to Solve Social Issues

Course Number BIGSS001

Credit 1 credit per semester

Length Up to 4 credits

Prerequisite None

Course Description:

This course provides students the opportunity to learn key principles in the design and application of technology to solve issues of social and community concern. Students will engage in projects and/or pursue solutions to compelling problems in order to apply their technology solutions. Development of 21st century and technology skills will be a strong focus of this course. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



Computer Science 1

Course Number BIG XX

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course provides an introduction to computer programming using a variety of tools based upon the student's interests. No previous programming experience is required.



Computer Science 2

Course Number BIG XX

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will continue to explore software development and computer programming. This course provides good preparation for AP Computer Science, applying for courses through NewBo Code School, and/or if planning to study computer science in college or vocational school.



Finite Topics with Statistics

Course Number BIGMA501, BIGMA502

Competency-Based

Credit 1 credit per semester

Length 2 semesters

Prerequisite Algebra 2

Course Description:

This course is designed for college bound students, especially those planning to major in science, social sciences, or business. The course provides an introduction to the mathematics and logic used in scientific research, computer programming, and business. It includes data organization and statistical reasoning with emphasis on concepts and uses of statistics. Topics include the mathematics of finance, management science, path analysis, symmetry, apportionment, fair division, quality control, and descriptive and inferential statistics. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



Unified Physics

Course Number BIGSC3031, BIGSC3032

Credit 1 credit per semester

Length 2 semesters

Prerequisite Algebra One

Course Description:

This course uses the UTC (Unified Technical Concepts in Physics) format. Students will learn the concepts of force, work, rates, resistance, energy, power, waves and radiation, both nuclear and electromagnetic. Topics are presented within authentic business and/or community projects in areas such as mechanical, fluid, electrical and thermal energy systems. Recommended for students interested in technology related careers. This year-long course can replace the Physical Science: Concepts in Physics (semester course) graduation requirement. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



Ecological Problems

Course Number BIGSC041

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Ecological Problems is a semester-long elective designed to investigate native organisms using basic ecological techniques. It is also designed to provide the student with an understanding of the ecological principles and environmental problems affecting natural and human systems. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



Economics

Course Number BIGSS402

Competency Based

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

The basic economic questions regarding what to produce, how to produce, and for whom to produce in a world of limited resources are the focus of this course. Students engage in actual business and community projects and problems to apply their learning in contextualized situations. Microeconomic concepts are addressed such as demand, supply, market clearing price, as well as skills for effective participation in the marketplace. Macroeconomic concepts such as the measurement of economic goals and the effects of monetary and fiscal policy are also addressed. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



American Government

Course Number BIGSS401

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

This course is required for graduation. AP United States Government and Politics may be taken in place of this course. This course presents a study of the structure and function of American government as established by the Constitution. The emphasis of this course is on the knowledge and behaviors necessary for effective citizenship within our community, state, nation, and world. Students engage in real business, community, and/or government projects to apply their understanding to real contexts to learn how government and politics look at the local, state, and national level and the effect political decisions and governmental actions have on various groups and entities. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



Psychology

Course Number BIGSS031

Competency Based

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

The emphasis of this course is on the diversity of factors influencing motivation, development, structure, and behavior of human personalities. Students engage in real business, community, and/or government projects to observe and/or apply their understanding to real contexts to learn how human behavior and action effect work, outcomes, and human interactions. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



Introduction to the Agile Mindset

Course Number BIG

Credit 1 credit per semester (Required for all 1st year BIG students)

Length 2 semesters

Prerequisite None

Course Description:

The Agile Mindset and the tools and processes that support it are becoming standard practice in leading organizations across the country. Agile supports project teams to create both high-quality results and constantly improve as a team. Students will learn and practice the Agile Mindset and have a working knowledge of the supportive tools and processes. Students will focus on the four principles of the Agile Mindset: Make People Awesome, Make Safety a Prerequisite, Experiment & Learn Rapidly, and Deliver Value Continuously. Students will also practice and be assessed on the Universal Constructs (21st Century Skills) required by the Iowa Common Core.



Advanced Agile Mindset

Course Number BIG

Credit 1 credit per semester Required for all 2nd and 3rd year BIG students

Length 2 semesters

Prerequisite: Introduction to the Agile Mindset

Course Description:

This course delves more deeply into the tools and processes of the Agile Mindset. Students will continue to hone their Agile skills through community-based projects and will exit this course with a strong grasp of the language and application of the Agile Mindset. Completion of the course should prepare students to pursue the various certifications offered through the Agile community, if so desired. Students will also practice and be assessed on the Universal Constructs (21st Century Skills) required by the Iowa Common Core.



Sociology

Course Number BIGSS2020

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description The emphasis of this course is on the ways in which human beings interact with the values, beliefs, norms, and institutions of a society. The manner in which individuals are socialized into a society is also explored. Students engage in real business, community, and/or government projects to observe and/or apply their understanding to real contexts to learn how interactions play out and affect people and outcomes. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



Honors Scientific Research & Design

Course Number BIGSC001

Credit 1 credit per semester

Length Up to 4 credits

Prerequisite None

Course Description This course provides students the opportunity to engage in more in-depth and sustained research and design of community, business, and/or government projects. Students work directly with business and community partners to take on projects, problems, and/or pursue opportunities to create something new. This course is competency-based, meaning students will be expected to demonstrate their understanding of the standards and content of the course in contextual performances for authentic audiences. Students complete the course when they have adequately demonstrated their competence in the identified standards.



Advanced Financial Decision Making

Course Number BIG XX

Credit 1 credit per semester

Length 1 semester

Prerequisite 11th & 12th grade students

Course Description This course introduces students to money management and personal finance tasks that students will use in everyday life. Students will learn how to earn money, manage money, make money grow, make sound purchasing decisions, and be a responsible user of credit.



Sales and Marketing

Course Number BIG XX

Credit 1 credit per semester

Length 1 semester

Prerequisite 10th - 12th grade students

Course Description Students learn the seven steps of completing a sale, human relations skills, job application procedures, how to succeed on the job and in sales, attitudes and techniques needed for success in sales.



Entrepreneurship

Course Number BIG XX

Credit 1 credit per semester

Length 1 semester

Prerequisite None

Course Description:

Students will explore the process of starting and owning a business. Topics include customer discovery, product selection and development, and feasibility. Determining who the customers will be, learning how to market the business, obtaining financing, managing employees, and more.



Iowa Jobs for America's Graduates (iJAG)

Credit 1 credit per semester

Length 1 semester

Course Description:

Through iJAG, students discover their individual talents, develop skills, and seize opportunities to achieve their personal potential. iJAG offers a venue for students to interact with employers and community-based organizations. The iJAG program teaches 37 core competencies comprised of six skill sets: personal skills, leadership skills, communication skills, job attainment skills, job success skills and career development skills.

Workplace Learning Connection Internships

Credit ½ credit per semester for 45 hours

1 credit per semester for 90 hours

Length 1 semester

Course Description:

Gain work experience and find out if a career is right for you through the Workplace Learning Connection's internship program. High school juniors and seniors can get 45-90 hours of planned and supervised career experiences. Interns learn new skills, apply classroom knowledge in a real-world setting, develop employability behaviors that better prepare them for the workplace, and gain insight that will help them make more informed career choices. To receive credit, students must complete the required on-site hours and coursework through Workplace Learning Connection and the Cedar Rapids Community School District.

Academic and Career Planning

Today's world is made up of endless career possibilities and each year, jobs are even created that don't currently exist.

That's why it's our goal to help you explore career possibilities, align them with your interests and skills, and start down your individual path to success.

As a district, we align our career exploration program with the Future Ready Iowa initiative. That means we start with a broad view of career options and provide you with the tools and resources to go deeper as your interest grows.

At the highest level, that starts with looking at Career Service Areas – an organizational structure used by the Iowa Department of Education to visualize careers.

SERVICE AREAS

- Agriculture, Food and Natural Resources
- Applied Science, Technology, Engineering and Manufacturing
- Business, Finance, Marketing and Management
- Health Sciences
- Human Services
- Information Solutions

So, where do you begin? After you identify a service area or areas in which you may have interest, check out the **Career Clusters** on the following pages.

Career clusters are a great tool for organizing career areas and help give you a guide for the things to consider when exploring the cluster.

In each career cluster that follows, you will find:

- A brief description of the cluster
- The career pathways and specific occupations within the cluster
- Resources for further exploration of specific occupations
- Recommended coursework to take in high school to be prepared for postsecondary education

CAREER CLUSTERS BY SERVICE AREA

(Click on each link for detailed information about each cluster)

[AGRICULTURE, FOOD AND NATURAL RESOURCES](#)

- Agriculture, Food and Natural Resources

[APPLIED SCIENCES, TECHNOLOGY, ENGINEERING, AND MANUFACTURING](#)

- Architecture and Construction
- Manufacturing
- Science, Technology, Engineering and Mathematics
- Transportation, Distribution, and Logistics

[BUSINESS, FINANCE, MARKETING AND MANAGEMENT](#)

- Business, Management and Administration
- Finance
- Marketing

[HEALTH SCIENCES](#)

- Health Science

[HUMAN SERVICES](#)

- Education and Training
- Human Services
- Hospitality and Tourism
- Government and Public Administration
- Law, Public Safety, Corrections and Security

[INFORMATION SOLUTIONS](#)

- Arts, Audio/Video Technology, and Communications
- Information Technology

SERVICE AREA: Agriculture, Food and Natural Resources

CAREER CLUSTER	AGRICULTURE, FOOD, NATURAL RESOURCES
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Natural resources – including food, plants, animals and the environment – are a critical component of the world around us. According to the federal Bureau of Labor Statistics, this cluster includes nearly all farming, fishing and forestry occupations, as well as many opportunities in life, physical and social sciences. This is a growing field, with many of the occupations in this cluster typically requiring a high school diploma or equivalent, plus some additional on-the-job or specialized training. There are also some occupations that require two-year, four-year or graduate degrees.

PATHWAYS IN THIS CLUSTER

» Agribusiness
 » Animal Management
 » Crops and Plants
 » Environmental Services
 » Food Production
 » Natural Resources
 » Power, Structural, and Technical Systems

... LEAD TO OCCUPATIONS AS:

» Agricultural Chemical Dealer
 » Agricultural Educator
 » Botanist
 » Ecologist
 » Environmental Engineer
 » Equine Manager
 » Farm Manager
 » Fish and Game Officer
 » Meat Cutter-Meat Grader
 » Park Manager
 » Plant Pathologist
 » Produce Buyer
 » Recycling Technician
 » Veterinarian
 » Wildlife Manager

DIVE DEEPER INTO CAREER OPTIONS

Log in to CRCSD's Career Information System

 Visit: Kirkwood Community College's [Workplace Learning Connection](#)

 Log in to NEPRIS (CRCSD's Career Exploration System)

 Visit [ICR Future](#)

This page is meant to guide course selection based on career interest and is not a comprehensive list of courses required for graduation from high school or for all 2-year and 4-year college-bound students. For a comprehensive list of courses, please refer to the course description section of this document.

CHART YOUR COURSE

The following high school courses can help prepare you for success in this field after high school. Start charting your courses with CAREER PREPARATION and proceed to 2-YEAR-DEGREE and 4-YEAR DEGREE based on your post-secondary plans. For a comprehensive list of courses with descriptions, visit the CRCSD Program of Studies.

CAREER PREPARATION

Recommended Courses (not an exhaustive list):

Intro to Business
 Ecological Problems
 Botany
 Biology
 Foods & Nutrition
 Earth Science

Suggested Extension Activities:

Job Shadow
 Volunteerism

+

2-YEAR-DEGREE

Recommended Courses (in addition to the suggested Career Prep courses):

Advanced Foods and Nutrition
 Physical Science One
 Physical Science Two
 Culinary Arts 1, 2 & 3
 ProStart One
 ProStart Two
 ProStart Internship

Suggested Extension Activities:

Job Shadow
 Volunteerism

+

4-YEAR DEGREE

Recommended Courses (in addition to the suggested 2-Year-Degree courses):

AP Environmental Science
 Unified Physics

Suggested Extension Activities:

Job Shadow
 Volunteerism

Service Learning

[Kirkwood Community College Career Academies](#)

Service Learning

Service Learning

SERVICE AREA: Applied Sciences, Technology, Engineering, and Manufacturing

**CAREER
CLUSTER**

ARCHITECTURE AND CONSTRUCTION

Do you love working with your hands and bringing a vision to life? A career designing and building of homes, roads and other structures could be for you. According to the federal Bureau of Labor Statistics, the job outlook in architecture and construction is expected to see above-average growth through 2028, with the largest growth in the construction segment. More than half of the jobs in this cluster require a high school diploma or equivalent, plus some additional on-the-job or specialized training. There are also some occupations that require two-year, four-year or graduate degrees.

PATHWAYS IN THIS CLUSTER

- » Construction
- » Maintenance and Operations
- » Pre-Construction and Design

... LEAD TO OCCUPATIONS AS:

- » Carpenter
- » Concrete Finisher
- » Construction Engineer
- » Construction Foreman/Manager
- » Drywall Installer
- » Electrician
- » Electronic Systems Technician
- » Equipment and Material Manager
- » General Contractor/Builder
- » Mason
- » Painter
- » Plumber
- » Project Estimator/Manager
- » Roofer
- » Sheet Metal Worker

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CAREER PREPARATION

2-YEAR-DEGREE

4-YEAR DEGREE

<p>Recommended Courses (not an exhaustive list):</p> <p>Robotics and Automation Woodworking Construction Building Trades Fundamentals of Welding Intro to Engineering Design Principles of Engineering</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p> <p>Kirkwood Community College Career Academies</p>	+	<p>Recommended Courses (in addition to the suggested Career Prep courses):</p> <p>Advanced Manufacturing and Entrepreneurship Advanced Woodworking Advanced Construction Physics Interior Design Engineering Design and Development Civil Engineering and Architecture</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>	+	<p>Recommended Courses (in addition to the suggested 2-Year-Degree courses):</p> <p>Physical Science Two AP Physics</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>
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SERVICE AREA: Applied Sciences, Technology, Engineering, and Manufacturing

CAREER CLUSTER	MANUFACTURING
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Careers in manufacturing are focused on making the products we use every day – including food, cars and household goods. This cluster also includes many installation, maintenance and repair occupations. This is an area that is seeing a need for a skilled workforce, as there is a shortage of workers with the necessary skills to fill needed positions. Careers in this cluster often require a high school diploma or equivalent, plus some additional on-the-job or specialized training, or a two-year degree. Some occupations also require four-year degrees.

PATHWAYS IN THIS CLUSTER

» Maintenance, Installation, and Repair
» Production
» Quality Assurance, Inspection, and Testing

... LEAD TO OCCUPATIONS AS:

» Assembler
» Design Engineer
» Environmental Engineer
» Foundry Worker
» Freight, Stock and Material Mover
» Health and Safety Representative
» Labor Relations Manager
» Logistician
» Manufacturing Technician
» Pattern and Model Maker
» Production Manager
» Quality Control Technician
» Safety Engineer
» Tool and Diemaker
» Traffic Manager
» Welder

DIVE DEEPER INTO CAREER OPTIONS

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CAREER PREPARATION	2-YEAR-DEGREE	4-YEAR DEGREE
<p>Recommended Courses (not an exhaustive list):</p> <p>All Project Lead The Way courses All Industrial Technology courses Robotics Computer Integrated Manufacturing</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p> <p>Kirkwood Community College Career Academies</p>	<p>Recommended Courses (in addition to the suggested Career Prep courses):</p> <p>Computer Science Sales and Marketing Business Law Advanced Manufacturing & Entrepreneurship</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>	<p>Recommended Courses (in addition to the suggested 2-Year-Degree courses):</p> <p>Advanced Computer Science</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>

SERVICE AREA: Applied Sciences, Technology, Engineering, and Manufacturing

CAREER CLUSTER	SCIENCE, TECHNOLOGY, ENGINEERING, MATH
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Are you a problem solver who loves figuring out how to solve complex issues? A career in a STEM field – which most often involves solving problems through research and design – could be right for you. Careers in this cluster have a wide range of educational requirements including certificate programs, two-year degrees, four-year degrees and well into graduate school through doctoral degrees.

PATHWAYS IN THIS CLUSTER	... LEAD TO OCCUPATIONS AS:	DIVE DEEPER INTO CAREER OPTIONS
<p>» Chemical and Material Engineering</p> <p>» Civil Engineering</p> <p>» Electrical and Electronic Engineering » Energy and Natural Resource Engineering</p> <p>» Industrial Engineering</p> <p>» Life and Environmental Sciences</p> <p>» Mathematics and Social Sciences</p> <p>» Mechanical Engineering</p> <p>» Physical Sciences</p>	<p>» Aerospace Engineer</p> <p>» Agricultural Engineer</p> <p>» Analytical Chemist</p> <p>» Anthropologist</p> <p>» Architectural Engineer</p> <p>» Biomedical Engineer</p> <p>» CAD Technician</p> <p>» Civil Engineer</p> <p>» Computer Programmer</p> <p>» Ecologist</p> <p>» Geologist</p> <p>» Math Teacher</p> <p>» Metallurgist</p> <p>» Statistician</p> <p>» Survey Technician</p> <p>» Zoologist</p>	<p>Log in to CRCSD's Career Information System</p> <p>Visit: Kirkwood Community College's Workplace Learning Connection</p> <p>Log in to NEPRIS (CRCSD's Career Exploration System)</p> <p>Visit ICR Future</p>

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CAREER PREPARATION	2-YEAR-DEGREE	4-YEAR DEGREE
<p>Recommended Courses (not an exhaustive list):</p> <p>Robotics & Automation Consumer Auto Mechanics Woodworking Construction Building Trades Fundamentals of Welding Power & Energy Introduction to Engineering & Design Computer Integrated Manufacturing Digital Electronics</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p> <p>Kirkwood Community College Career Academies</p>	<p>Recommended Courses (in addition to the suggested Career Prep courses):</p> <p>Advanced Consumer Auto Mechanics Advanced Woodworking Advanced Construction Advanced Manufacturing & Entrepreneurship Principles of Engineering Civil Architecture & Design</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>	<p>Recommended Courses (in addition to the suggested 2-Year-Degree courses):</p> <p>BIG Technology & Design BIG Scientific Research & Design Aerospace Fundamentals</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>

SERVICE AREA: Applied Sciences, Technology, Engineering, and Manufacturing

CAREER CLUSTER	TRANSPORTATION, DISTRIBUTION, AND LOGISTICS
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As part of our world economy, it is critical that people, materials and goods move from one place to another efficiently. Enter the Transportation, Distribution and Logistics cluster, which makes it all happen. Careers in this cluster often require a high school diploma or equivalent, plus some additional on-the-job or specialized training, or a two-year degree. Some occupations also require four-year degrees.

PATHWAYS IN THIS CLUSTER

... LEAD TO OCCUPATIONS AS:

DIVE DEEPER INTO CAREER OPTIONS

<ul style="list-style-type: none"> » Distribution and Logistics » Mobile Equipment Maintenance » Transportation Operations » Warehousing and Distribution 	<ul style="list-style-type: none"> » Airplane Pilot/Co-Pilot » Air Traffic Controller » Avionics Technician » Cargo and Freight Agent » Environmental Manager » Facility Engineer » Industrial Equipment Mechanic » International Logistics Specialist » Port Manager » Safety Analyst » Storage and Distribution Manager » Transportation Manager » Truck Driver » Urban and Regional Planner » Warehouse Manager 	<p>Log in to CRCSD's Career Information System</p> <p>Visit: Kirkwood Community College's Workplace Learning Connection</p> <p>Log in to NEPRIS (CRCSD's Career Exploration System)</p> <p>Visit ICR Future</p>
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CAREER PREPARATION	2-YEAR-DEGREE	4-YEAR DEGREE
<p>Recommended Courses (not an exhaustive list):</p> <p>Consumer Auto Mechanics Power and Energy Digital Electronics All Project Lead The Way courses American Government World Geography</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p> <p>Kirkwood Community College Career Academies</p>	<p>Recommended Courses (in addition to the suggested Career Prep courses):</p> <p>Advanced Auto Mechanics Business Courses</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>	<p>Recommended Courses (in addition to the suggested 2-Year-Degree courses):</p> <p>Advanced Business Courses</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>

SERVICE AREA: **Business, Finance, Marketing and Management**

CAREER CLUSTER	BUSINESS MANAGEMENT AND ADMINISTRATION
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Are you interested in helping a business be successful? Across all types of businesses and non-profit organizations, careers in Business, Management and Administration help plan, organize, direct and evaluate business functions. The federal Bureau of Labor Statistics predicts that through 2028, careers in the field will see above-average growth and there are a wide range of opportunities across the spectrum of educational requirements.

PATHWAYS IN THIS CLUSTER	... LEAD TO OCCUPATIONS AS:	DIVE DEEPER INTO CAREER OPTIONS
<ul style="list-style-type: none"> » Administrative Support » Advertising and Marketing » Business Analysis » Finance and Accounting » Human Resources » Management 	<ul style="list-style-type: none"> » Administrative Assistant » Advertising Sales Person » Auditor » Business Consultant » Corporate Trainer » E-Commerce Analyst » Entrepreneur » Finance Director » Human Resources Manager » Investment Executive » Marketing Analyst » Medical Transcriptionist » Office Manager » Public Relations Manager » Sales Representative » Wholesale and Retail Buyer 	<p>Log in to CRCSD's Career Information System</p> <p>Visit: Kirkwood Community College's Workplace Learning Connection</p> <p>Log in to NEPRIS (CRCSD's Career Exploration System)</p> <p>Visit ICR Future</p>

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CAREER PREPARATION	2-YEAR-DEGREE	4-YEAR DEGREE
<p>Recommended Courses (not an exhaustive list):</p> <p>Sales & Marketing Entrepreneurship Personal Finance Money Management Art 101 Illustrator Digital Imaging Introduction to Photography</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Job Shadow Volunteerism Service Learning</p> <p>Kirkwood Community College Career Academies</p>	<p>Recommended Courses (in addition to the suggested Career Prep courses):</p> <p>Business Law One Accounting Sports & Entertainment Marketing</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Job Shadow Volunteerism Service Learning</p>	<p>Recommended Courses (in addition to the suggested 2-Year-Degree courses):</p> <p>Advanced Photograph Advanced Financial Decision Making BIG Advanced Professional Studies</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Job Shadow Volunteerism Service Learning</p>

SERVICE AREA: Business, Finance, Marketing and Management

CAREER CLUSTER	FINANCE
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If you love numbers and analyzing data to help make informed business decisions, you may want to explore a career in finance! The federal Bureau of Labor Statistics projects that careers in the finance area will grow six percent through 2028, particularly due to the growing range of financial products available. Careers in this sector often begin with requirements of a two-year or four-year degree, with some on-the-job training or certification options available as well.

PATHWAYS IN THIS CLUSTER

» Banking
» Financial Analysis
» Financial and Investment Planning
» Insurance

... LEAD TO OCCUPATIONS AS:

» Abstractor
» Accountant
» Actuary
» Bill and Account Collector
» Controller
» Credit Analyst
» Debt Counselor
» Economist
» Financial Planner
» Insurance Broker
» Internal Auditor
» Loan Officer
» Non-Profit Manager
» Title Researcher and Examiner
» Treasurer
» Underwriter

DIVE DEEPER INTO CAREER OPTIONS

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CAREER PREPARATION

Recommended Courses (not an exhaustive list):

Sales & Marketing
Entrepreneurship
Personal Finance
Business Law One
Money Management

Workplace Learning Connection Internship

Suggested Extension Activities:
Job Shadow
Volunteerism
Service Learning

[Kirkwood Community College Career Academies](#)

+

2-YEAR-DEGREE

Recommended Courses (in addition to the suggested Career Prep courses):

Accounting

Workplace Learning Connection Internship

Suggested Extension Activities:
Job Shadow
Volunteerism
Service Learning

+

4-YEAR DEGREE

Recommended Courses (in addition to the suggested 2-Year-Degree courses):

Advanced Financial Decision Making
BIG Advanced Professional Studies

Workplace Learning Connection Internship

Suggested Extension Activities:
Job Shadow
Volunteerism
Service Learning

SERVICE AREA: Business, Finance, Marketing and Management

CAREER CLUSTER	MARKETING
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In a world filled with information overload, there are great opportunities in careers that help organizations cut through the clutter and share their messages in distinctive ways. The federal Bureau of Labor Statistics projects careers in marketing will grow at an above-average pace. This sector has a wide range of opportunities across the spectrum of educational requirements.

PATHWAYS IN THIS CLUSTER

- » Buying and Merchandising
- » Marketing Operations
- » Sales Operations

... LEAD TO OCCUPATIONS AS:

- » Copywriter/Designer
- » E-Commerce Director
- » Entrepreneur
- » Field Marketing Representative
- » Interactive Media Specialist
- » Inventory Manager/Analyst
- » Merchandise Buyer
- » On-line Market Researcher
- » Public Relations Manager
- » Promotions Manager
- » Retail Marketing Coordinator
- » Sales Executive
- » Shipping/Receiving Clerk
- » Telemarketer
- » Trade Show Manager
- » Webmaster

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CAREER PREPARATION

Recommended Courses (not an exhaustive list):

Sales & Marketing
Entrepreneurship
Personal Finance
Business Law One
Money Management
Sports & Entertainment Marketing
Art 101
Illustrator
Digital Imaging

+

2-YEAR-DEGREE

Recommended Courses (in addition to the suggested Career Prep courses):

Introduction to Photography
Accounting
Psychology

+

4-YEAR DEGREE

Recommended Courses (in addition to the suggested 2-Year-Degree courses):

Advanced Photography
BIG Advanced Professional Studies
Advanced Financial Decision Making
AP Psychology

Web Site Design Principles Workplace Learning Connection Internship Suggested Extension Activities: Job Shadow Volunteerism Service Learning Kirkwood Community College Career Academies	Workplace Learning Connection Internship Suggested Extension Activities: Job Shadow Volunteerism Service Learning	Workplace Learning Connection Internship Suggested Extension Activities: Job Shadow Volunteerism Service Learning
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SERVICE AREA: Health Sciences

CAREER CLUSTER	HEALTH SCIENCE
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If you are looking for a hands-on career focused on helping people live healthy lives, the healthcare field may be for you! As one of the fastest growing employment fields, the federal Bureau of Labor Statistics projects that healthcare careers will grow 14 percent through 2028, adding an estimated 1.9 million new jobs. Careers in this sector have a wide range of educational requirements including certificate programs, two-year degrees, four-year degrees and well into graduate school through doctoral degrees.

PATHWAYS IN THIS CLUSTER

- » Diagnosis and Treatment
- » Medical Administration and Support Services
- » Medical Science and Biotechnology
- » Therapy and Natural Healing

... LEAD TO OCCUPATIONS AS:

- » Athletic Trainer
- » Biochemist
- » Dental Assistant/Hygienist
- » EMT/Paramedic
- » Home Health Aide
- » Lab Technician
- » Nutritionist
- » Occupational Therapist
- » Phlebotomist
- » Physician (MD/DO)
- » Physician's Assistant
- » Radiographer
- » Registered Nurse
- » Research Scientist
- » Speech/Language Pathologist
- » Veterinarian

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CAREER PREPARATION	2-YEAR-DEGREE	4-YEAR DEGREE
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<p>Recommended Courses (not an exhaustive list):</p> <p>Medical Terminology Explorations of Healthcare Careers Professionals in Health Health and Fitness Nutrition</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Job Shadow Volunteerism Service Learning</p> <p>Kirkwood Community College Career Academies</p>	+	<p>Recommended Courses (in addition to the suggested Career Prep courses):</p> <p>Biology Chemistry Anatomy and Physiology Psychology Social Psychology</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Job Shadow Volunteerism Service Learning</p>	+	<p>Recommended Courses (in addition to the suggested 2-Year-Degree courses):</p> <p>AP Biology AP Chemistry AP Psychology</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Job Shadow Volunteerism Service Learning</p>
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SERVICE AREA: Human Services

CAREER CLUSTER	EDUCATION AND TRAINING
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Do you love to help people learn and succeed? If so, a career in education and training could be one of the most rewarding for you! With a well-documented teacher shortage on the horizon and a continual need for educational support staff, the career outlook in this career field remains positive. Licensed teachers are required to have a four-year degree, with advanced degrees for administrative roles. A variety of support options are available to those with two-year degrees or on-the-job training.

PATHWAYS IN THIS CLUSTER	... LEAD TO OCCUPATIONS AS:	DIVE DEEPER INTO CAREER OPTIONS
<p>» Education Administration » Professional Support Services » Teaching and Training</p>	<p>» Administrator » Assessment Specialist » CareerTech Administrator » Child Care Worker » Clinical Psychologist » Coach » College/University Faculty » Counselor » Curriculum Developer » Elementary Teacher » High School Teacher » Middle School Teacher » Principal » Speech-Language Pathologist</p>	<p>Log in to CRCSD's Career Information System</p> <p>Visit: Kirkwood Community College's Workplace Learning Connection</p> <p>Log in to NEPRIS (CRCSD's Career Exploration System)</p> <p>Visit ICR Future</p>

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CAREER PREPARATION	2-YEAR-DEGREE	4-YEAR DEGREE
<p>Recommended Courses (not an exhaustive list):</p> <p>School Age Child Development School Age Child Development Internship Early Childhood Development Early Childhood Development Internship</p> <p>+</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Job Shadow Volunteerism Service Learning</p> <p>Kirkwood Community College Career Academies</p>	<p>Recommended Courses (in addition to the suggested Career Prep courses):</p> <p>Behavioral Sciences 1 Behavioral Sciences 2 Introduction to Psychology (DC)</p> <p>+</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Kirkwood Paraeducator Certificate Program Kirkwood Certified Drug & Alcohol Education Certificate Program Job Shadow Volunteerism Service Learning</p>	<p>Recommended Courses (in addition to the suggested 2-Year-Degree courses):</p> <p>AP Psychology</p> <p>+</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Job Shadow Volunteerism Service Learning</p>

SERVICE AREA: Human Services

CAREER CLUSTER	GOVERNMENT AND PUBLIC ADMINISTRATION
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Fascinated by the work of the government? You can be part of it. Careers in the Government and Public Administration cluster are varied and focus on government functions at all levels – local, state and federal. From an educational perspective, careers in this cluster most often require a bachelor's degree for entry, with some jobs requiring less or more education.

PATHWAYS IN THIS CLUSTER	... LEAD TO OCCUPATIONS AS:	DIVE DEEPER INTO CAREER OPTIONS
<p>» Public Administration and Governance</p> <p>» Public Planning</p> <p>» Public Regulation</p> <p>» Revenue and Taxation</p>	<p>» Ambassador</p> <p>» Bank Examiner</p> <p>» City Manager</p> <p>» Combat Control Officer</p> <p>» Commissioner</p> <p>» Cryptographer</p> <p>» Election Supervisor</p> <p>» Elected Official</p> <p>» Foreign Service Officer</p> <p>» Immigration Officer</p> <p>» Intelligence Analyst</p> <p>» Lobbyist</p> <p>» National Security Advisor</p> <p>» Planner</p> <p>» Policy Advisor</p> <p>» Tax Policy Analyst</p>	<p>Log in to CRCSD's Career Information System</p> <p>Visit: Kirkwood Community College's Workplace Learning Connection</p> <p>Log in to NEPRIS (CRCSD's Career Exploration System)</p> <p>Visit ICR Future</p>

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CAREER PREPARATION	2-YEAR-DEGREE	4-YEAR DEGREE
<p>Recommended Courses (not an exhaustive list):</p> <p>Current World Issues American Government Economics Speech & Debate Personal Law Accounting I & II Kirkwood Computer Network & Cybersecurity Academy Kirkwood Criminal Justice Academy</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Job Shadow Volunteerism Service Learning</p> <p>Kirkwood Community College Career Academies</p>	<p>Recommended Courses (in addition to the suggested Career Prep courses):</p> <p>World History US History Business Law One African American History Economics</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities:</p> <p>Job Shadow Volunteerism Service Learning</p>	<p>Recommended Courses (in addition to the suggested 2-Year-Degree courses):</p> <p>AP World History AP European History AP US History AP Comparative Government & Politics AP US Government & Politics AP Macroeconomics AP Microeconomics</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities : Job Shadow Volunteerism Service Learning:</p>

SERVICE AREA: Human Services

CAREER CLUSTER	HOSPITALITY AND TOURISM
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Focused on providing a variety of travel, recreational, lodging, dining and entertainment attractions, the Hospitality and Tourism cluster is one of the largest in terms of number of jobs. The career outlook in this cluster remains strong. From an educational perspective, careers in this cluster often require a high school diploma or equivalent, plus some additional on-the-job or specialized training, or a two-year degree. Some occupations also require four-year degrees.

PATHWAYS IN THIS CLUSTER

... LEAD TO OCCUPATIONS AS:

DIVE DEEPER INTO CAREER OPTIONS

» Food and Beverage Services » Lodging » Recreation, Amusements, and Attractions » Travel and Tourism	» Baker » Casino Manager » Caterer » Convention Services Manager » Director of Operations - Lodging » Director of Tourism Development » Event Planner » Executive Chef » Facilities Manager » Museum Director » Reservations Manager » Restaurant Owner/Manager » Sports Promoter » Theme Park Manager » Tour and Travel Guide » Travel Agent	Log in to CRCSD's Career Information System Visit: Kirkwood Community College's Workplace Learning Connection Log in to NEPRIS (CRCSD's Career Exploration System) Visit ICR Future
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CAREER PREPARATION	2-YEAR-DEGREE	4-YEAR DEGREE
Recommended Courses (not an exhaustive list): Entrepreneurship - How to Run a Business Food Fundamentals and Nutrition Culinary Techniques ProStart One ProStart Two Workplace Learning Connection Internship Suggested Extension Activities: Job Shadow Volunteerism Service Learning Kirkwood Business Certificate Programs Kirkwood Community College Career Academies	Recommended Courses (in addition to the suggested Career Prep courses): Accounting I and II Real Estate Marketing Sports & Entertainment Marketing Workplace Learning Connection Internship Suggested Extension Activities: Job Shadow Volunteerism Service Learning	Recommended Courses (in addition to the suggested 2-Year-Degree courses): Workplace Learning Connection Internship Suggested Extension Activities: Job Shadow Volunteerism Service Learning

SERVICE AREA: Human Services

CAREER CLUSTER	HUMAN SERVICES
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Do you love helping people? A career in the wide-reaching career of human services could be for you. Careers in this cluster include those in community and social services, as well as in personal care and service occupations. According to the federal Bureau of Labor Statistics, opportunities in this sector are expected to grow through 2028, in particular due to an aging population and a continued need for quality childcare. Careers in this cluster have a wide range of educational requirements including certificate programs, two-year degrees, four-year degrees and graduate degrees.

PATHWAYS IN THIS CLUSTER	... LEAD TO OCCUPATIONS AS:	DIVE DEEPER INTO CAREER OPTIONS
<ul style="list-style-type: none"> » Counseling and Mental Health Services » Early Childhood Development and Services » Family and Community Services » Personal Services 	<ul style="list-style-type: none"> » Buyer » Certified Financial Planner » Community Service Director » Consumer Advocate » Cosmetologist » Director of Childcare Facility » Emergency and Relief Worker » Esthetician » Funeral Director » Licensed Professional Counselor » Market Researcher » Massage Therapist » Personal Fitness Trainer » School Counselor/Psychologist » Small Business Owner » Social Worker 	<p>Log in to CRCSD's Career Information System</p> <p>Visit: Kirkwood Community College's Workplace Learning Connection</p> <p>Log in to NEPRIS (CRCSD's Career Exploration System)</p> <p>Visit ICR Future</p>

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CHART YOUR COURSE

The following high school courses can help prepare you for success in this field after high school. Start charting your courses with CAREER PREPARATION and proceed to 2-YEAR-DEGREE and 4-YEAR DEGREE based on your post-secondary plans. For a comprehensive list of courses with descriptions, visit the CRCSD Program of Studies.

CAREER PREPARATION	2-YEAR-DEGREE	4-YEAR DEGREE
<p>Recommended Courses (not an exhaustive list):</p> <p>Behavioral Sciences 1 & 2 Early Childhood Development School Age Child Development Personal Development Entrepreneurship - How to Run a Business Personal Finance Health and Fitness 1 & 2</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p> <p>Kirkwood Community College Career Academies</p>	<p>Recommended Courses (in addition to the suggested Career Prep courses):</p> <p>Accounting I & II Forensic Science Personal Law Money Management</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>	<p>Recommended Courses (in addition to the suggested 2-Year-Degree courses):</p> <p>AP Psychology Anatomy & Physiology</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>

SERVICE AREA: Human Services

CAREER CLUSTER	LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY
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If you are interested in a career focused on keeping people safe, the Law, Public Safety Corrections and Security cluster could be for you. This cluster has a wide range of opportunities including all forms of law enforcement, careers in the area of law, and the professional and technical positions supporting these areas. From an educational perspective, there are a wide range of entry points depending on the role, ranging from a high school diploma with some specialized or on-the-job training through graduate degrees.

PATHWAYS IN THIS CLUSTER

- » Corrections
- » Fire and Emergency Services
- » Law Enforcement Services
- » Legal Services
- » Security and Protective Services

... LEAD TO OCCUPATIONS AS:

- » Attorney
- » Bomb Technician
- » Corrections Officer
- » Court Reporter
- » EMT
- » Federal Marshall
- » Firefighter
- » Gaming Surveillance Specialist
- » Hazardous Materials Responder
- » Loss Prevention Specialist
- » Paralegal
- » Park Ranger
- » Police and Patrol Officer
- » Probation/Parole Officer
- » Security Director
- » Youth Services Worker

DIVE DEEPER INTO CAREER OPTIONS

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CAREER PREPARATION

Recommended Courses (not an exhaustive list):

Behavioral Sciences 1 & 2
Personal Law
Current World Issues
Speech & Debate
Kirkwood Criminal Justice Academy
Kirkwood Social Work Academy

Workplace Learning Connection Internship

Suggested Extension Activities:

Job Shadow
Volunteerism
Service Learning

+

2-YEAR-DEGREE

Recommended Courses (in addition to the suggested Career Prep courses):

Forensic Science
Botany
Philosophy
African American History
American Government

Workplace Learning Connection Internship

Suggested Extension Activities:

Job Shadow
Volunteerism
Service Learning

+

4-YEAR DEGREE

Recommended Courses (in addition to the suggested 2-Year-Degree courses):

AP Environmental Science
AP Comparative Government & Politics
AP US Government & Politics
AP Psychology

Workplace Learning Connection Internship

Suggested Extension Activities:

Job Shadow
Volunteerism
Service Learning

SERVICE AREA: Information Solutions

**CAREER
CLUSTER**

**ARTS, AUDIO/VIDEO TECHNOLOGY, AND
COMMUNICATION**

When it comes to bringing your creativity to life, look no further than the Arts, Audio-Visual Technology and Communications career cluster. With wide ranging careers options, this cluster include everything from media and graphic design roles to jobs in the visual and performing arts, as well as in entertainment and sports. Many careers in this cluster require a four-year degree, but there are also a variety of positions available across the educational spectrum.

PATHWAYS IN THIS CLUSTER

- » Audio and Visual Technology
- » Journalism and Broadcasting
- » Performing Arts
- » Printing Technology
- » Telecommunications
- » Visual Art and Design

... LEAD TO OCCUPATIONS AS:

- » Actor
- » Audio-Video Designer
- » Engineer
- » Broadcast Technician
- » Commercial Artist
- » Computer Animator
- » Curator/Gallery Manager
- » Director and Coach
- » Fashion Designer
- » Journalist
- » Lithographer
- » Musician
- » Printing Equipment Operator
- » Telecommunication Technician
- » Videographer
- » Web Page Designer

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CAREER PREPARATION

2-YEAR-DEGREE

4-YEAR DEGREE

<p>Recommended Courses (not an exhaustive list):</p> <p>Digital Imaging Animation Computer Science Essentials Video Game Marketing & Design Computer Coding Stagecraft and Design</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p> <p>Kirkwood Community College Career Academies</p>	+	<p>Recommended Courses (in addition to the suggested Career Prep courses):</p> <p>Computer Science Advanced Video Game Marketing & Design Advanced Computer Coding 21st Century Media – Student News/Yearbook Intro to Media – Journalism Creative Writing</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>	+	<p>Recommended Courses (in addition to the suggested 2-Year-Degree courses):</p> <p>Advanced Computer Science AP Computer Science</p> <p>Workplace Learning Connection Internship</p> <p>Suggested Extension Activities: Job Shadow Volunteerism Service Learning</p>
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SERVICE AREA: Information Solutions

CAREER CLUSTER	INFORMATION TECHNOLOGY
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Growth in the information technology sector is moving at the speed of the web – and if you want to be part of the ongoing technological revolution, check out this field! Bolstered by the increased focus on cloud computing and information security, the federal Bureau of Labor Statistics projects information technology careers will grow 12 percent through 2028. This cluster has a wide range of opportunities across the spectrum of educational requirements.

PATHWAYS IN THIS CLUSTER	... LEAD TO OCCUPATIONS AS:	DIVE DEEPER INTO CAREER OPTIONS
<p>» Information Technology and Services</p> <p>» Network Systems</p> <p>» Programming and Software Development</p>	<p>» Database Administrator</p> <p>» Data Systems Designer</p> <p>» E-Business Specialist</p> <p>» Game Developer</p> <p>» Information Technology Engineer</p> <p>» Media Specialist</p> <p>» Network Administrator</p> <p>» Network Security Analyst</p> <p>» PC Support Specialist</p> <p>» Programmer</p> <p>» Software Applications Specialist</p> <p>» Systems Administrator</p> <p>» Telecommunications Technician</p> <p>» User Support Specialist</p> <p>» Virtual Reality Specialist</p> <p>» Web Architect/Designer</p>	<p>Log in to CRCSD's Career Information System</p> <p>Visit: Kirkwood Community College's Workplace Learning Connection</p> <p>Log in to NEPRIS (CRCSD's Career Exploration System)</p> <p>Visit ICR Future</p>

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CAREER PREPARATION

Recommended Courses (not an exhaustive list):

Web Design Principles
Computer Essentials
Digital Electronics
Robotics
Kirkwood Computer Network &
Cybersecurity Academy

Workplace Learning Connection Internship

Suggested Extension Activities:

Job Shadow
Volunteerism
Service Learning

[Kirkwood Community College Career Academies](#)

+

2-YEAR-DEGREE

Recommended Courses (in addition to the suggested Career Prep courses):

Computer Science
Computer Coding

Workplace Learning Connection Internship

Suggested Extension Activities:

Job Shadow
Volunteerism
Service Learning

+

4-YEAR DEGREE

Recommended Courses (in addition to the suggested 2-Year-Degree courses):

Advanced Computer Science
AP Computer Science
AP Computer Science – Principles
Advanced Computer Coding

Workplace Learning Connection Internship

Suggested Extension Activities:

Job Shadow
Volunteerism
Service Learning

Non-Discrimination Policy

It is the policy of the Cedar Rapids Community School District not to discriminate in educational programs on the basis of race, creed, color, gender, sexual orientation, marital status, gender identity, socioeconomic status, national origin, religion, disability, age (except for permitting/prohibiting students to engage in certain activities) or genetic information and in employment opportunities on the basis of age, race, creed, color, gender, sexual orientation, gender identity, national origin, religion, disability or genetic information. There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact Rod Dooley, Executive Director of Equity, (RDooley@crschools.us), and/or Linda Noggle, Executive Director of Talent Management, (LNoggle@crschools.us), Educational Leadership and Support Center, 2500 Edgewood Rd NW, Cedar Rapids, IA, (319) 558-2000.