

Linn-Mar High School Program of Studies

2021-2022

Inspire Learning. Unlock Potential. Empower Achievement.

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KEY



Regents Admissions Index (RAI) approved course



NCAA approved course



Weighted course graded on a 5.0 scale



Project Lead the Way



Kirkwood Community College credit course



Talented and Gifted Program Course



Curriculum for Agricultural Science Education



Blended Course



Online Course



Virtual Course

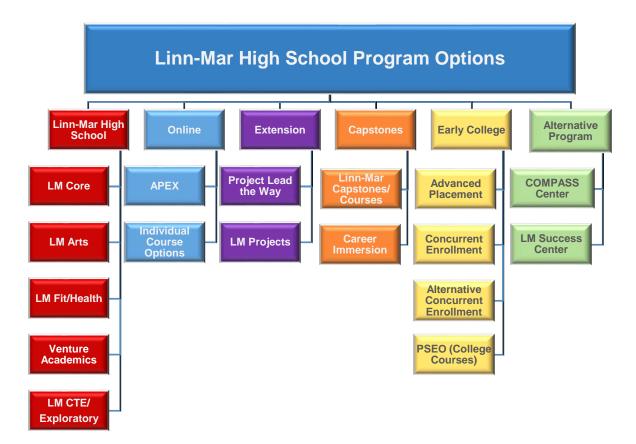
Equity, Access, and Non-Discrimination in Educational Programs

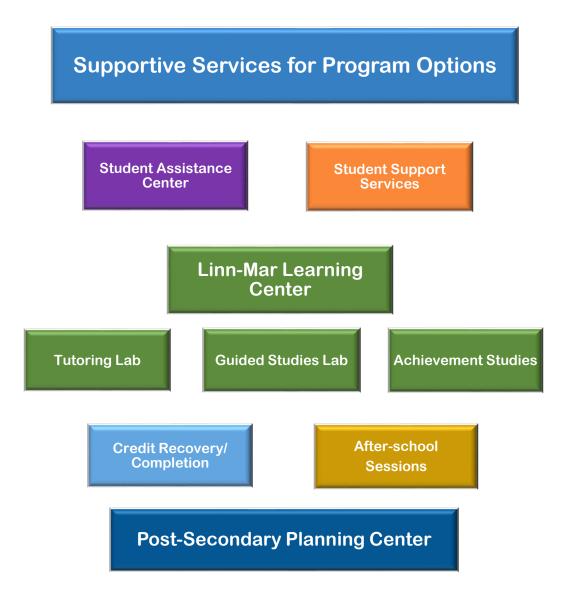
The Linn-Mar Community School District encourages and supports participation of underrepresented and underserved populations in its educational programs. In addition to groups identified in the LMCSD non-discrimination policy posted below, those of national origin minority and limited English language proficiency are encouraged access. Participation trends of traditionally underrepresented groups are examined annually and verified underrepresentation is addressed through communication, outreach, and recruitment provided by professional staff.

The Linn-Mar Community School District does not discriminate on the basis of age, color, creed, national origin, race, religion, marital status, sex, sexual orientation, gender identity, physical attributes, genetic information, physical or mental ability or disability, ancestry, political party preference, political belief, military status, socioeconomic status (for programs), pregnancy, or familial status in its educational programs or activities as required by Iowa Code sections 216.9 and 256.10(2), Titles VI and VII of the Civil Rights Act of 1964 (42 U.S.C. § 2000d and 2000e), Title IX (Educational Amendments, 20 U.S.C.§ 1681 – 1688), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), and the Americans with Disabilities Act (42 U.S.C. § 12101, et seq.).

Inquiries regarding compliance with equal educational opportunity can be directed to the Linn-Mar Equity Coordinators who have been designated by the district to coordinate the district's efforts to comply with the regulations implementing Title VI, Title VII, Title IX, the ADA, § 504, and Iowa Code § 280.3 (2007).

Equity, Affirmative Action, and Title IX Coordinator: Karla Christian, Chief Officer of Human Resources 319-447-3036 / <u>kchristian@Linnmar.k12.ia.us</u> 2999 N 10th Street – Room 213, Marion IA 52302 Equity Coordinator: Nathan Wear, Associate Superintendent 319-447-3028 <u>/nathan.wear@Linnmar.k12.ia.us</u> 2999 N 10th Street – Room 200, Marion IA 52302





Linn-Mar Academic Guidelines

Academic Letter

Students who achieve a 3.33 or higher grade point average during a given school year are eligible for a Linn-Mar High School academic letter. Academic letters are presented to students at an assembly each fall. Students must have been in attendance at Linn-Mar High School during both semesters of the previous school year to qualify. Academic Letter recipients who achieve a GPA of 4.00 or higher during a given school year are eligible to receive a Linn-Mar High School Academic Letter *with Distinction.* Recipients with a GPA of 3.75-3.99 during a given school year are eligible to receive a Linn-Mar High School Academic Letter *with Honors.*

Biliteracy Seal

The Seal of Biliteracy is an award given by Linn-Mar High School and the State of lowa to recognize students who have attained proficiency in two or more languages to include English, by high school graduation.

The Seal of Biliteracy:

- Values language as an asset
- Recognizes the value of language diversity & cultural identity
- Prepares students with 21st century skills that will benefit them in the labor market and the global society
- Provides employers, universities, and grant/scholarship providers with a method to recognize applicants for their dedication to attainment of biliteracy

To be eligible to be awarded the Iowa Seal of Biliteracy, each student shall demonstrate proficiency in English and one or more World languages. The requirement must be met during the course of a student's high school years.

Any student interested in earning the Biliteracy diploma award seal must register with his or her school counselor by January 1 and complete testing by April 1 of the year of graduation.

Course Load

Students in grades 9-11 must enroll in 70 credit hours per year. Students in grade 12 must enroll in 60 credit hours per year.

Credit Hours

Most block courses (which meet 95 minutes per day) are worth five credits per quarter (9 weeks). Most other courses (which meet for 45 minutes per day) are worth five credits per semester (18 weeks).



Credit/Fail Option

Students in grades 10-12 may elect to take a course "Credit/Fail". **Courses needed to satisfy graduation requirements in Math, Science, Social Studies, and English may not be taken Credit/Fail.** A limit of 25 credits may be taken Cr/F during the high school career. A grade C- (70%) or higher must be earned to receive credit. Grades lower than C- will receive an F grade. Students must choose this option by the end of the 5th week for block classes and by the end of the 10th week for semester/traditional classes.

Drop/Add Deadlines

A student must add a new block course before the end of the 3rd day of a new grading period. A new Math, Music, Foreign Language, or **early-bird** course must be added before the end of the 5th day of a new semester. A student must drop a block course before the end of the 4th week of a given grading period. A 45 minute "skinny" course must be dropped before the end of the 8th week.

<u>Grading</u>

Linn-Mar High School uses a standard grading scale: A+ (99%); A (93%); A- (90%); B+ (87%); B (83%); B- (80%); C+ (77%); C (73%); C- (70%); D+ (67%); D (63%); D- (60%); F+ (55%). Percentages are rounded to the nearest whole percentage (0.5 or higher is rounded up and 0.49 or lower is rounded down). Extra credit or same test re-takes may raise a grade to no more than an A-.

Grade Point Calculation

Grade point averages (GPA) are computed on a 4.33 scale as follows: A+ (4.33); A (4.0); A- (3.67); B+ (3.33); B (3.0); B- (2.67); C+ (2.33); C (2.0); C- (1.67); D+ (1.33); D (1.0); D- (0.67). Transfer GPA will be computed using the Linn-Mar High School grade point calculation values.

Graduation – Early

Students meeting all requirements for graduation and **electing to graduate early must apply for early graduation at least one month prior to the student's final quarter.** Applications can be picked up in the 11/12 office and submitted to the Principal's Office. The Principal will meet with each early graduation applicant prior to recommending candidates to the Board of Education for approval.

Graduation Requirements

Linn-Mar High School students are required to earn 250 credits in order to graduate. In addition, the following department requirements must be met in order to earn a diploma:

- <u>English 40 credits.</u> Must include English I or Advanced English I (10 credits each), English II or Advanced English II (may opt out if pass Advanced English I with a 90% or higher grade), English III or Advanced English III, and one speech/acting course (5 credits).
- <u>Mathematics 30 credits.</u> Must include Algebra 1 (10 credits) or Algebra 1A and Algebra 1B (20 credits). Students who successfully complete both semesters of Algebra 1 may not then take Algebra 1A or Algebra 1B to fulfill the Algebra or three year Math requirement.
- <u>Science 30 credits</u>. Must include General Biology (10 credits) or Fundamentals of Biology I and Fundamentals of Biology II (20 credits), a physical science course (Chemistry, Physics, or Earth and Physical Science) (10 credits). Ten elective credits may include the following technical offerings: Agriculture, Food and Natural Resources, Principles of Agricultural Science - Animal, Natural Resources and Ecology, Food Science and Safety, and Aquaculture Science.
- <u>Science (starting with the Class of 2022) 30 credits</u>. Must include General Biology (10 credits) or AP Biology 1&2 (15 credits) an earth science course (Earth Science (10 credits), Earth and Space Science (10 credits), or AP Environmental Science 1&2 (15 credits)), a chemistry course (Applied Chemistry and Physics (10 credits) or Chemistry I (10 credits)), and a physics course (Earth and Space Science (10 credits), Applied Chemistry and Physics (10 credits), Applied Chemistry and Physics (10 credits), Physics I (10 credits), or AP Physics 1&2 (20 credits)).
- <u>Social Studies 30 credits</u>. Must include U.S. History 9 or Advanced U.S. History 9 (10 credits) or AP U.S. History (15 credits), World History (10 credits) or AP World History (15 credits), American Government (5 credits) or AP American Government (10 credits), and one social studies elective (5 credits).
- <u>Social Studies (starting with the Class of 2022) 30 credits.</u> Must include U.S. History 9 or Advanced U.S. History 9 (10 credits) or AP U.S. History (15 credits), World History (10 credits) or AP World History (15 credits), American Government (5 credits) or AP American Government (10 credits), and Introductory Psychology or Sociology (5 credits).
- <u>Personal Finance 5 credits</u>. Students must receive credit for Personal Finance (5 credits) or complete and demonstrate financial literacy competencies gained through a designated online financial literacy course.
- <u>Health/Fitness 20 credits.</u> Must include Health I (5 credits). Must include a Lifetime Fitness Course each school year.

Graduation requirements for students with an Individual Education Program (IEP) will be in accordance with a prescribed course of study meeting requirements of the Iowa State Board of Education. Specific requirements will include four years of English, three years of math, three years of social studies, three years of science, and completion of District physical education expectations as written in a student's IEP.

Standards Reporting and Course Grades

Linn-Mar High School reports on Priority Standards of the Iowa Core and content standards in subject areas not included in the Iowa Core. Proficiency scales define increasingly complex levels of performance mastery and provide the basis for evaluation of student knowledge and skill on Priority Standards. The Standard Proficiency Scale used by Linn-Mar High School progresses from Level 1 (Beginning) to Level 4 (Exemplary). A mark of INC or NC (Incomplete or No Credit) will be used to indicate insufficient evidence to assess learning. Category titles and descriptions used in the LMHS standard proficiency scale are subject to update. In addition to standards reporting, a traditional course letter grade will be calculated from individual student performance scores and recorded on the student's personal school transcript. The conversion scale on page 10 will be used to calculate the traditional course letter grade.

Standard Proficiency Scale

Score	Level	Description
4	Exemplary	Student shows in-depth inferences and application in class as taught by the teacher in addition to meeting the standard, such as explaining or demonstrating connections between ideas. Examples could include: - real-world application - use of information to solve problems in a different context - demonstration of unique insight or complex understanding - use of advanced analysis skills - demonstration of creative application of skills
3.5		In addition to score 3.0 performance, in-depth inferences and application with partial success.
3	Proficient	Student is able to independently use, apply, and/or demonstrate the standard but may include errors that don't impact demonstration of the standard.
2.5		No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content.
2	Approaching	Student can demonstrate foundational processes of the standard.
1.5		No major errors or omissions regarding 1.0 content and partial knowledge of the 2.0 content.
1	Beginning	Student recalls vocabulary and/or understands simpler ideas, skills, and concepts.
INC/NC	Incomplete	No evidence demonstrating knowledge of the standard.

Scale Score	Traditional Score
4	100
3.5	95
3	90
2.5	85
2	75
1.5	65
1	60
INC/NC	INC

Proficiency Scale Conversion

Standardized Testing Program

Standardized testing plays a significant part in the planning process for post-high school transition. The counseling staff, homeroom teachers, parents, and students will collaborate to develop an appropriate fouryear academic plan for each student. The LMHS testing plan is designed to comply with Iowa Department of Education requirements. In addition, these tests provide helpful information about students' strengths and interests. Finally, test results are analyzed to provide feedback regarding the effectiveness of curriculum, instruction, and assessment.

* Required assessments are subject to change each year.

9th Grade

• Iowa Statewide Assessment of Student Progress (ISASP) (required)

10th Grade

- Iowa Statewide Assessment of Student Progress (ISASP) (required)
- NWEA MAP test (math and reading assessment) (required)
- PSAT: Pre-SAT/National Merit Scholarship Qualifying Test (optional) ** fee required

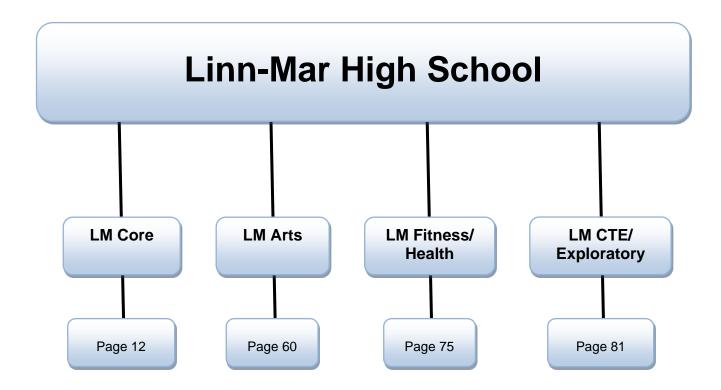
11th Grade

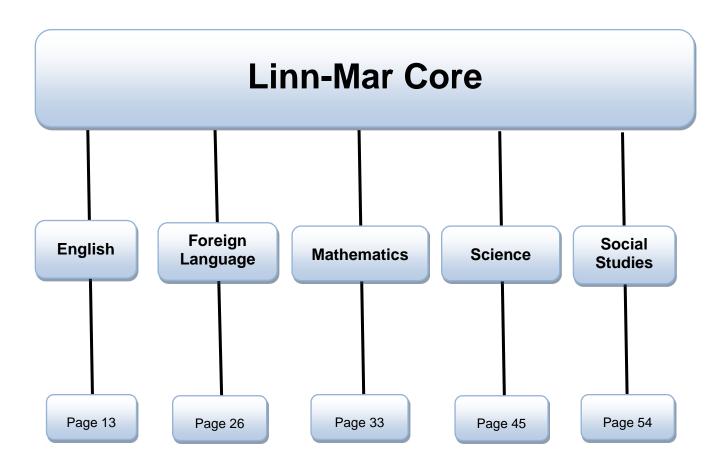
- Iowa Statewide Assessment of Student Progress (ISASP) (required)
- ASVAB military career inventory (optional)
- ACT (optional) ** fee required
- SAT I and SAT II (optional) ** fee required
- PSAT: Pre-SAT/National Merit Scholarship Qualifying Test (optional) ** fee required

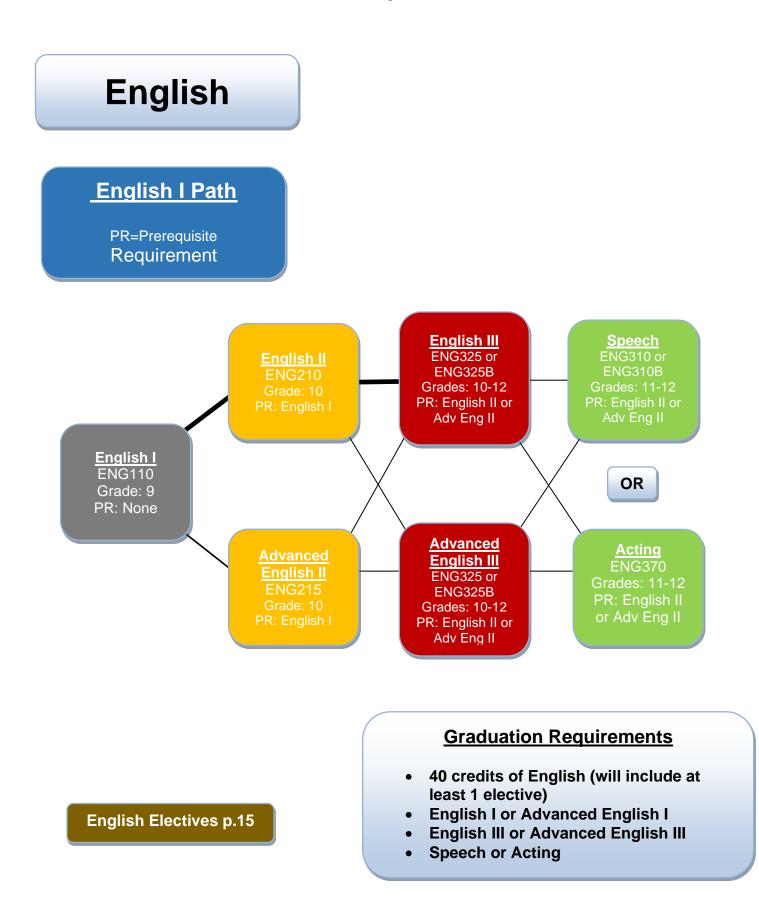
12th Grade

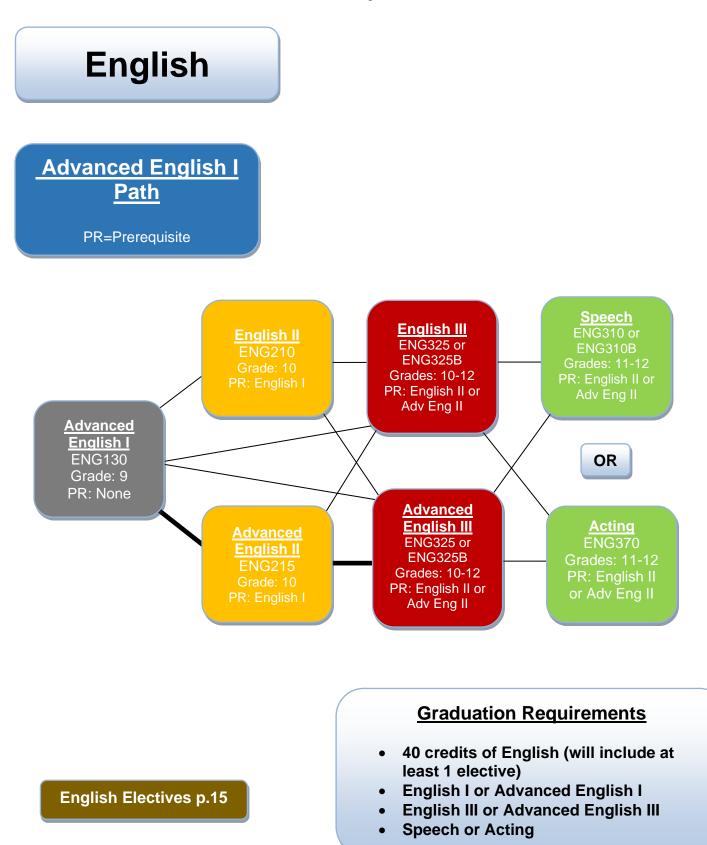
- ACT (optional) ** fee required
- SAT I and SAT II (optional) ** fee required
- COMPASS (Kirkwood placement) (optional)
- ASVAB- military career inventory (optional)

* If any test is required by state legislative or Department of Education action, it will be added to this listing for the year required.

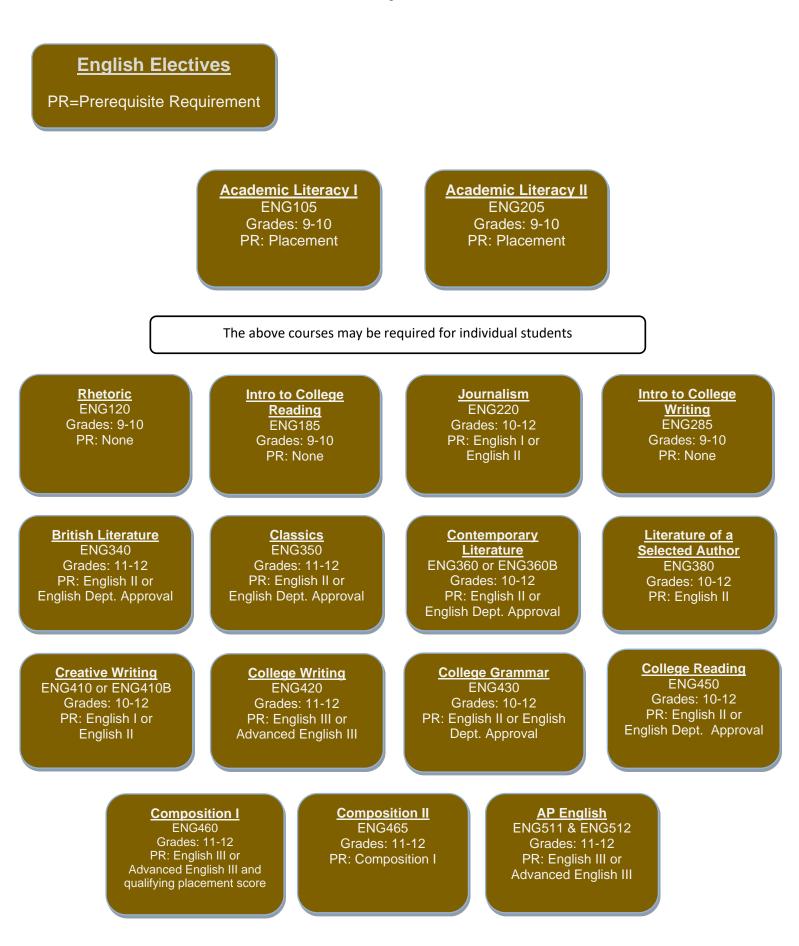








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Academic Literacy I

Course #: ENG105 Grade Level: 9-10 Credits: 5 Length: 1 Semester Format: Skinny Prerequisite: approval



Considerations: Students are placed in this course per recommendation of the 8th grade language arts teachers, Iowa Assessment scores and other indicators. This course is designed for students reading significantly below grade level. * May be required for individual students.

Course Description: This course develops reading rate and comprehension skills of material presented in all content areas. Each unit will include the reading process, independent reading and vocabulary. Specific units will focus on reading textbooks, fiction, non-fiction, internet, graphics and tests.

English I

Course #: Grade Level: Credits: Length: Format: Prerequisite:



2 Quarters



Considerations: English I or Advanced English I required for graduation.

Block

none

g

Course Description: This course develops communication skills in reading, speaking, listening, thinking and writing. It includes units in the short story, the novel, poetry, drama and research. The student will practice various forms of writing and will work toward improving grammar, mechanics, and vocabularv.

Rhetoric Course #: Grade Level: 9-10 Credits: 5 Length: Format: Block Prerequisite: None

ENG120 1 Quarters



Considerations:

- Not offered as a standalone class.
- ONLY offered through Venture Academics.
- English elective course

Course Description: This course is designed for Venture Academics. Students will work on three foundational skills: reading, writing and speaking relative to the strand focus.

Advanced English	<u>n I</u>	
Course #:	ENG130	BOARD OF REGENTS
Grade Level:	9	
Credits:	10	
Length:	2 Quarters	
Format:	Block	
Prerequisite:	none	

Considerations: English I or Advanced English I required for graduation. Students need to be highly motivated in reading and writing. Expectations are high regarding motivation and achievement, reflected in the pace and rigor of the curriculum. Additionally, good basic writing and research skills are expected.

Course Description: This is an accelerated class which emphasizes analytical reading and writing. Students should be independent learners. Students will read several novels, non-fiction, drama and short stories.

Intro to College Reading

Course #:	ENG185
Grade Level:	9-10
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations:

- Not offered as a standalone class.
- ONLY offered through Venture Academics.
- English elective course

Course Description: This course is designed for Venture Academics. Students will work on reading and comprehension skills across a variety of writing genres.

Academic Literacy II

Course #:	ENG205
Grade Level:	9-10
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Academic Literacy I
	or approval

Considerations: Students are placed in this course per recommendation of 9th grade English teachers, Iowa Assessment scores, and other indicators. This course is designed for students reading significantly below grade level. *May be required for individual students.

<u>Course Description:</u> This course continues to develop reading rate and comprehension of material presented in all content areas. This course reinforces strategies learning in Academic Literacy I.

English II

Course #: Grade Level: Credits: Length: Format: Prerequisite:

ENG210 10 10 2 Quarters Block English I or Advanced English I

Considerations: See prerequisite. Fulfills the 10th grade English requirement for graduation.

Course Description: This course continues to develop and refine student skills in the areas of reading, writing, listening, and speaking. It includes units in the short story, novel, and drama. It will also introduce various writing styles (literary analysis, narrative, and research.) In English II work continues on student responsibility, respect for each other, intellectual curiosity, and embracing of for varying viewpoints.

Journalism Course #:

Course #:	ENG220
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	English II, English III, or
	English Department
	approval

<u>Considerations:</u> See prerequisite.

Course Description: This course is an introductory, overview class which teaches basic journalism skills while examining the role of newspapers in our society. Areas explored include newspaper interviewing, writing, and editing. Students are also introduced to the concepts of Press Law. <u>This course DOES NOT meet the composition requirement for admission to UNI.</u>

Advanced English II

Course #:	ENG215
Grade Level:	10-12
Credits:	10
Length:	2 Quarter
Format:	Block
Prerequisite:	English I
	English I

ENG215 10-12 10 2 Quarters Block English I or Advanced

Considerations: See prerequisite. Fulfills the 10th grade English requirement for graduation.

Course Description: This is an accelerated version of English II where students will analyze/interpret a variety of American and global literature with an emphasis on analytical writing and interpreting literary pieces. Students will also write argumentative, research, and personal essays. Students should be highly self-motivated and independent and should expect homework each night. This course has a high level of rigor and expectations.

The following texts will be covered in class:

- Selection of short pieces of fiction and • nonfiction from American authors and those outside of the global North
- I am Malala
- Love Hate & Other Filters
- Fahrenheit 451 •
- A literary circle novel (The Fishermen, Under the Udala Trees. No Friend but the Mountains)
- Possible additional texts (Of Mice and Men, • Fahrenheit 451, House on Mango Street, Shakespeare)

Intro to College Writing

Course #:	ENG 285
Grade Level:	9-10
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations:

- Not offered as a standalone class.
- ONLY offered through Venture Academics. •
- English elective course

Course Description:

This course is designed for Venture Academics. Students will learn and improve their general writing skills. Students will learn organizational skills in writing, learn how to develop their ideas, improve their skills in word choice and sentence structure, learn and improve their mechanics in writing, and learn research skills.

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<u>English III</u>	STATE OF IOWA
Course #:	ENG315 or ENG315B
Grade Level:	10-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	English II or English
	Department approval

Considerations: See prerequisite.

Course Description: Students will analyze and interpret a variety of American literature, including selections from our earliest writers to our foremost contemporaries. Students will also write informative, argumentative, research and personal essays. This is a process-oriented class where students will revise and edit their own work. The following text will be covered in class:

- Short pieces of fiction and nonfiction from American authors
- Selections of poetry from Walt Whitman, • Emily Dickinson and other American poets
- The Great Gatsby
- The Crucible
- I Know Why the Caged Bird Sings
- A Raisin in the Sun

Speech

Course #: Grade Level: Credits: Length: Fomat: Prerequisite: ENG310 or ENG310B 11-12 5 1 Quarter Block English II or III, or English Department approval

<u>Considerations:</u> See prerequisite. Speech or Acting is required for graduation.

Course Description: Speech is designed to make students more effective communicators by emphasizing a variety of real-life speaking situations and building self-confidence in all of these settings. Because this is a performance-based class, students should carefully consider conflicts which may result in absences. Sophomores who have passed English 1 with high marks may ask their counselor to be put on a waiting list for this class. Admission is subject to availability.

Advanced English III



Course #:	ENG325 c
Grade Level:	10-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	English II
-	Donartmo

2 Quarters Block English II or English Department approval

<u>Considerations</u>: Fulfills the literature and writing requirement for graduation and is encouraged for students planning to take AP English.

<u>Course Description</u>: This is an accelerated version of English III where students will analyze/interpret a variety of American literature with an emphasis on analytical writing and interpreting literary pieces. Students will also write informative, persuasive, research and personal essays. Students should be highly self-motivated and independent and should expect homework each night. This course has a high level of rigor and expectations. The following text will be covered in class:

- Billy Budd
- The Awakening
- The Jungle
- The Adventures of Huckleberry Finn
- The Great Gatsby
- I Know Why the Caged Bird Sings
- The Crucible
- Selections of poetry from Walt Whitman, Emily Dickinson and other American poets
- Short pieces of fiction and nonfiction from American authors

British Literature

Course #: Grade Level: Credits: Length: Format: Prerequisite: ENG340 10-12

5 1 Quarter Block English II, English III, or English Department approval

Considerations: See prerequisite.

Course Description: This course is designed to broaden a student's reading and writing experiences. Students will read approximately five novels, excerpts from classic British works, historical overviews of the literary periods and articles related to Britain. Students will do individual and group presentations. Among these are: serve on a discussion group for a novel, present their research project, and design and discuss their coatof-arms.

Classics

Course #: Grade Level: Credits: Length: Format: Prerequisite: ENG350 11-12 5 1 Quarter Block

Considerations: See prerequisites.

<u>Course Description:</u> Students in this course will analyze selected works of literature that speak compassionately of the human experience, that relate human values and that represent some of the best of the literary traditions in order to gain new awareness of themselves and others.

Contemporary Literature

Course #:	ENG360 or ENG360B
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	English II, English III, or
	English Department
	approval

Considerations: See prerequisites.

Course Description: Students will read a variety of selected contemporary titles in multiple genres, including fiction, non-fiction, memoir, short stories, essays and poetry. Specific attention will be devoted to identifying classifications, and the study of theme, author voice and specific author intent within the writing. Students will complete multiple projects to promote lifelong literacy and will discover how technology and the internet can enhance reading selections. Some selections in this course have a more mature theme.

Acting	
Course #:	ENG370
Grade Level:	11-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	English II, English III, or
	English Department
	approval

<u>Considerations</u>: See prerequisites. Acting or Speech is required for graduation. Acting DOES NOT meet the Board of Regents criteria for the RAI. Admission to the class is subject to availability.

Course Description: Acting is designed to make students more effective communicators by emphasizing a variety of speaking situations and building self-confidence in all these settings. Because this is a performance based class, students should carefully consider potential conflicts that may result in absences.

Literature of a Selected Author

Course #: Grade Level: Credits: Length: Format: Prerequisite: NCAL

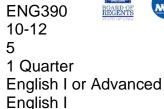
ENG380 10-12 5 1 Quarter Block English II, English III, or English Department approval

<u>Considerations</u>: See prerequisites. This is an advanced, college preparatory literature course.

Course Description: Students will read, discuss, and analyze a variety of texts surrounding a selected author. Students will relate historical events and their impact on the literature, will relate the author's life, world/regional events of the time, and social conditions of the works of the author. Students will respond to common elements and themes in the author's major body of work.

Communications

Course #: Grade Level: Credits: Length: Prerequisite:



NCA

<u>Considerations:</u> May be used to fulfill the graduation requirement for Speech/Acting through lowa BIG (former) or Venture Academics (current).

Course Description: Communications will prepare students to effectively publicly speak for career and professional endeavors and interactions. Students will understand and apply necessary skills for interviewing, team collaboration, public presentations to school boards and community organizations, creating professional digital profiles, and professional use of social media. Students will develop speaking and listening skills in authentic learning opportunities that address an evolving definition of public speaking.

Creative Writing

Course #:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
•

ENG410 or ENG410B 10-12 5 1 Quarter Block English II or English Department approval

Considerations: See prerequisites.

<u>Course Description:</u> This course is designed for students who genuinely like to write in a variety of forms. Students will take writing from the initial idea through the developmental and polishing stages.

College Writing

Course #:	ENG420
Grade Level:	11-12
Credits	5
Length:	1 Quarter
Format:	Block
Prerequisite:	English III or
-	Adv. English III

BOARD O

<u>Consideration</u>: Students should take this class if they need to improve their writing skills, and do not yet feel comfortable taking a college-level writing class.

Course Description:

This course is designed for any student who is considering college, interested in improving general writing skills, and/or considering taking Composition I. Students will improve organizational skills in writing, learn how to develop their ideas, improve their skills in word choice and sentence structure, improve their mechanics in writing, improve their research skills, and learn how to better develop and write a research paper in MLA style. Papers may include the following essays: Personal, Definition, Division/Classification, Comparison/Contrast, and Persuasive. In addition, students will write a research paper in which they will support their position on a contemporary issue.

College Grammar	BOARD OF REGENTS
Course #:	ENG430
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	English II or English
	Department approval

Considerations: See prerequisites.

<u>Course Description</u>: This course develops skills in analyzing sentences and applying rules of standard written English. Included are units on vocabulary development, grammatical <u>punctuation</u>, and editing written products.

College Reading		BOARD OF
Course #:	ENG450	STATE OF IOWA
Grade Level:	10-12	
Credits:	5	
Length:	1 Quarter	
Format:	Block	
Prerequisite:	English II	

Considerations: See prerequisites.

<u>Course Description</u>: This course is designed for students who wish to improve their reading rate and comprehension skills in order to be successful in their studies beyond high school.

Composition I

Course #: Grade Level: Credits: Length: Format: Prerequisite:



<u>Considerations</u>: See prerequisite. Basic writing and research skills are expected and needed. This is a dual-credit course, and the expectations reflect those of college courses.

Course Description: This course strengthens students' writing skills that have been developed in previous English courses. Particular emphasis is on furthering skills in argument writing. The course also seeks to develop a student's ability to think critically. Students will complete several formal papers, impromptu essays in response to current events, and two papers involving research. Additionally, students will make presentations and frequently conduct peer review. This class is combination of seminar and lab time.

Composition II

Course #:	ENG465 or ENG4	65E	
Grade Level:	11-12		(F)
Credits:	5 (LM), 3 (KW)	BOARD OF	K
Length:	1 Quarter	STATE OF IOWA	~11/
Format:	Block		?
Prerequisite:	Composition I	мсаа	5

<u>Considerations</u>: See prerequisite. This is a dualcredit course, and the expectations reflect those of college courses.

Course Description: This course continues to develop writing skills and critical thinking skills introduced in Composition I, with a particular emphasis on argument analysis. The course requires critical analysis of reading materials, audience and self, and further emphasizes precise and effective use of research tools while honing a student's ability to analyze and construct logical arguments. This class is a combination of seminar and lab time.



Advanced Placement English ENG512

Course #:	
Grade Level:	
Credits:	
Length:	
Format:	
Prerequisite:	

2 Quarters



Block Advanced English III is strongly recommended

Considerations: See prerequisite. This twoquarter class will be offered during the first semester of the year and will prepare students to take the AP English Literature and Composition in May. Review sessions during semester 2 will be provided.

11-12

10

Course Description: This course is for highly motivated students capable of college level work. Students will further develop critical thinking skills through the study of complex literature and writing numerous literary analyses. Students will be expected to have read one text prior to the beginning of the course, and should check with their instructor for further information.

English Language Learners Fundamentals

Course #:	ENG140
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

<u>Considerations</u>: Students are placed in the course based on the Home Language Survey and their scores on the English Language Proficiency Assessments.

Course Description: This course is designed to develop students' speaking, listening, reading and writing skills in the English language and develop the skills that students need to be successful at L-M and beyond.

English Language Learners I

Course #:	ENG145
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

<u>Considerations:</u> Students are placed in the course based on the Home Language Survey and their scores on the English Language Proficiency Assessments.

<u>Course Description:</u> This course is designed to continue to develop students' speaking, listening, reading, and writing skills in the English Language. This course focuses on academic reading and writing, analyzing and interpreting different genres which build academic vocabulary and grammar skills.

English Language Learners II

Course #:	ENG245
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

<u>Considerations</u>: Students are placed in the course based on the Home Language Survey and their scores on the English Language Proficiency Assessments.

Course Description: This course is designed to continue to develop students' speaking, listening, reading, and writing skills in the English language. This course focuses on academic reading and writing, analyzing and interpreting different genres which build academic vocabulary and grammar skills. This course will also focus on the writing process, a variety of essay styles, and writing research papers.

English Language Learners III

Course #:	ENG335
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

<u>Considerations</u>: Students are placed in the course based on the Home Language Survey and their scores on the English Language Proficiency Assessments.

Course Description: This course is designed to continue to develop students' speaking, listening, reading, and writing skills in the English language. This course focuses on academic reading and writing, analyzing and interpreting different genres which build academic vocabulary and grammar skills. In this course, students will read texts that relate to American history and culture in order to increase students' background on these subjects while honing their reading skills. This course will also focus on the writing process, a variety of essay styles, and writing research papers.

English Language Learners Civics and Culturo I

Course #:	ELL100
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

Considerations: Students are placed in the course based on the Home Language Survey and their scores on the English Language Proficiency Assessments.

Course Description: This course is designed to help English Language Learners develop their academic language while building background knowledge about history, government, and culture in the United States.

English Language Learners Directed Studies

Directed Studies	
Course #:	ELL001DS
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

Considerations: Students are placed in the course based on the Home Language Survey and their scores on the English Language Proficiency Assessments.

Course Description: This course is designed to assist students with their other academic classes. Supports provided include help with understanding the expectations and assignments for classes, oneon-one tutoring and administration of assessments when necessary.

English Language Learners

<u>College Prep</u>	
Course #:	ELL001CP
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

Considerations: Students are placed in the course based on the Home Language Survey and their scores on the English Language Proficiency Assessments.

Course Description: This course is designed to continue to develop students' composition skills in the English language. This course will focus on preparing for the ACT and SAT exams through extensive vocabulary, grammar, reading and composition practice. Focus will also be given to the college admissions process, financial aid concerns, scholarship opportunities, personal finance, and career skills.

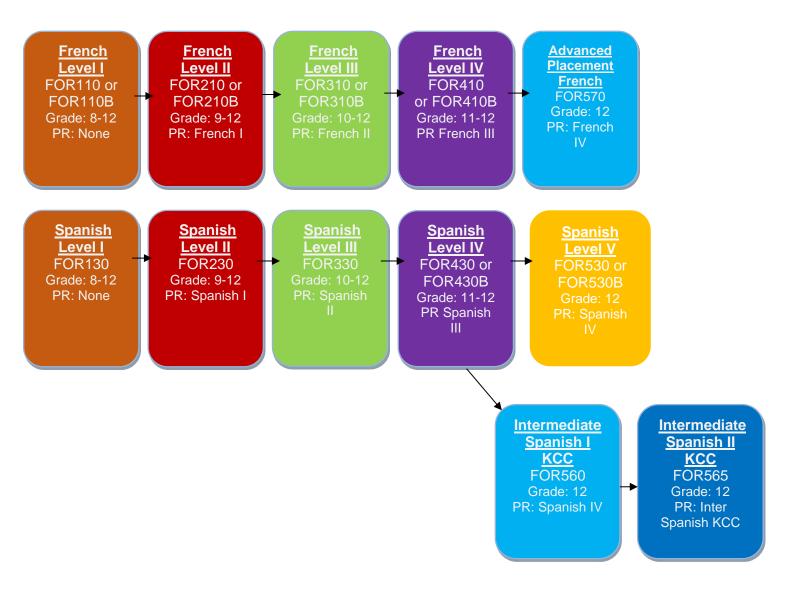
Work Experience - Yearbook

Course #:	GUI411
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny- Early Bird (7:45-
	8:20 AM)
Prerequisite:	none

Considerations: The class is a blended class meeting 2 days a week before school. During blended days students will be covering school events or working on yearbook work assignments on their own time. Though taught through the English Department, credits earned through yearbook are elective only and do not count toward English graduation requirements.

Course Description: Yearbook is a project-based class where students will work with the yearbook printing company on real-time deadlines to complete the school yearbook. Students will take photos of school events, write copy, interview students and staff, and design pages for the yearbook. NOTE: Class will be flexible with any interested Marching Band students Q1.

Foreign Language



Level I French

Course #: Grade Level: Credits: Length: Format: Prerequisite: FOR110 or FOR110B 8-12 10 1 or 2 Semester(s) Block or Skinny none

Considerations: none

Course Description: This course develops the communicative skills of reading, writing, speaking, and listening. Basic grammar concepts and vocabulary are introduced. The target language is used during class time.

Topics include school schedules and subjects, pastimes and activities, likes and dislikes, places, weather, time, family and Paris. Grammar concepts include adjectives and agreement, present tense of –er verbs, and irregular verbs avoir, etre, faire, aller, venir as well as stem changing verbs acheter and preferer and the –re group of verbs. Students also learn possessive adjectives and the near future.

Level I Spanish

Course #: Grade Level: Credits: Length: Format: Prerequisite: FOR130 8-12 10 1 or 2 Semester(s) Block or Skinny none

Considerations: none

<u>Course Description:</u> This course develops the communicative skills of reading, writing, speaking, and listening. Basic grammar concepts and vocabulary are introduced. The target language is used during class time.

Topics include school schedules and subjects, food and beverages, and pastimes. Grammar concepts include adjectives and agreement, me gusta, present tense ar, er, ir verbs, and irregular verbs estar, ser, ir, tener, and jugar.

Level II French

Course #:	
Grade Level:	
Credits:	
Length:	
Format:	
Prerequisite:	

FOR210 or FOR210B 9-12 10 1 or 2 Semester(s) Block or Skinny French I

Considerations: Second term grade of 60% or higher in Level I is required.

<u>Course Description</u>: This course continues to emphasize the communicative skills of reading, writing, speaking, and listening. Grammar concepts, vocabulary, and use of target language are expanded.

Topics include eating in a café, clothing and shopping, household chores and parts of the house, shops and stores and travel. Additional units include provinces of France and a cinematographic unit on Marcel Pagnol. Grammar concepts include passe compose, demonstrative adjectives, interrogative adjectives, the partitive and prepositions with places. New verbs are mettre, boire, voir, prendre, savoir, connaitre, appeler,dormer, partir, sortir, vouloir, pouvoir as well as –ir verbs. Student also learn command forms.

Level II Spanish

RD OF ENTS

Course #: Grade Level: Credits: Length: Format: Prerequisite:

FOR230 9-12 10 1 or 2 Semester(s) Block or Skinny Spanish I

<u>Considerations:</u> Second term grade of 60% or higher in Level I is required.

Course Description: This course continues to emphasize the communicative skills of reading, writing, speaking, and listening. Grammar concepts, vocabulary, and use of target language are expanded.

Topics include families, parties, and restaurants, rooms in the house, clothing, stores, and vacation.

Grammar concepts include possessive adjectives, comparatives and superlatives, direct object and indirect object pronouns, affirmative tu commands, present progressive and preterite tense. The irregular verbs tener, venir, ser, estar, poder, dormer, pensar, preferir, querer, and decir are introduced.

Level III French

Course #:	
Grade Level:	
Credits:	
Length:	
Format:	
Prerequisite:	

FOR310 or FOR310B 10-12 10 1 or 2 Semester(s) Block or Skinny French II

<u>Considerations:</u> Second term grade of 60% or higher in level II is required.

<u>Course Description:</u> This course continues to develop and refine the communicative skills of reading, writing, speaking, and listening. Complex grammar concepts are introduced. The target language will be widely utilized.

Topics include expansion on prior topics and prior preparation and francophone holidays and cuisine, school places and events, morning routine, childhood memories and activities, animal vocabulary. Grammar topics addressed are direct and indirect object pronouns as well as y and en, extension of passe compose and learning of the imperfect tense, negative expressions, reflexive verbs, comparative and superlative adjectives and nouns. Students should be able to use the near future, present tense and both past tenses. There is also a cinematographic unit with two additional Pagnol films. Students begin to write more extensive and styles of communication in French.

Level III Spanish

Course #: Grade Level: Credits: Length: Format: Prerequisite: FOR330 or FOR330B 10-12 10 1 or 2 Semester(s) Block or Skinny Spanish II

<u>Considerations:</u> Second term grade of 60% or higher in Level II is required.

Course Description: This course continues to develop and refine the communicative skills of reading, writing, speaking and listening. Complex grammar concepts are introduced. The target language will be widely utilized.

Topics include school, extracurricular activities, special events, clothing, errands, places in the city, and childhood. Grammar concepts include stem changing verbs, negative and affirmative words, reflexive verbs, demonstrative adjectives, direct and indirect object pronouns, affirmative tu commands, present progressive, preterite, and the imperfect tense. The irregular verbs of saber and conocer are introduced.

Level IV French

Course #: Grade Level: Credits: Length: Format: Prereguisite: FOR410 or FOR410B 11-12 10 1 or 2 Semester(s) Block or Skinny French III

<u>Considerations:</u> Second term grade of 60% or higher in Level III is required.

<u>Course Description</u>: Level IV expands the communicative skills of reading, writing, speaking, and listening. Complex grammar concepts are introduced. Class will be conducted extensively in the target language.

Topics include outdoor activities, fitness and health, professions, travel plans, movies and reading, the Renaissance. Informal speech register, slang and texting language is also taught. Grammar concepts include the future, the conditional and subjunctive verb tenses, demonstrative, interrogative and possessive pronouns. Present participles and relative pronouns are also learned. There is also a Victor Hugo poetry unit. Students will study current events of the francophone world on a weekly basis.

Level IV Spanish

Course #: Grade Level: Credits: Length: Format: Prerequisite: FOR430 or FOR430B 11-12 10 1 or 2 Semester(s) Block or Skinny Spanish III

<u>Considerations:</u> Grade of 60% or higher for second term in Level III is required.

<u>Course Description:</u> Level IV expands the communicative skills of reading, writing, speaking, and listening. Complex grammar concepts are introduced. Class will be conducted extensively in the target language.

Topics include natural disasters, accidents, emergency room, TV programs, and sporting events, movies, cooking, and camping. Grammar concepts include preterite vs. imperfect, reflexive verbs, gustar-like verbs, impersonal se, por vs. para, imperfect progressive, present perfect, and commands.

Level V Spanish



Course #: Grade Level: Credits: Length: Format: Prereguisite:

FOR530 12 10 1 or 2 Semester(s) Block or Skinny Spanish IV

Considerations: Second term grade of 60% or higher in Level IV is required.

<u>Course Description:</u> Level V will focus on the communicative skills of reading, writing, speaking, and listening. Complex grammar concepts are introduced. Class will be conducted extensively in the target language.

Topics include visiting an airport, planning a trip and traveling to a foreign country, staying in a hotel, professions and making plans for the future, and discussing environmental problems and possible solutions.

Grammar concepts includes the review of present, preterite, imperfect, and perfect tenses and the introduction of nosotros commands, future, conditional, and subjunctive tenses.

Spanish V will offer students an opportunity to explore the Hispanic culture.

Intermediate Spanish I KCC

Course #: Grade Level: Credits: Length: Format: Prerequisite: BOARD OF COM

FOR560 12 5 (LM), 4 (KW) 1 Quarter or 1 Semester Block or Skinny Spanish IV

<u>**Considerations:**</u> see prerequisite. Class is conducted in Spanish.

Course Description: In this class, students will continue to develop their ability to communicate in Spanish in everyday, practical situations that they might encounter both in the U.S. and abroad. Along with the development of oral skills, students will also work on the other 3 vital components of language: reading, writing and listening comprehension. Students will actively engage themselves in pair/group activities to express themselves in basic situations. Classroom time will be used for intensive language practice in meaningful contexts (i.e. applying important grammatical concepts, essential vocabulary, and cultural norms needed to maintain basic communication.) Class time will consist of communication activities following grammatical explanations. Students are expected to study and complete assigned workbook, video, lab and textbook activities outside of class.

Intermediate Spanish II KCC

Course #: Grade Level: Credits: Length: Format: Prerequisite:



FOR565 12 5 (LM), 4 (KW) 1 Quarter or 1 Semester Block or Skinny Intermediate Spanish I

<u>Considerations:</u> see prerequisite. Class is conducted in Spanish.

Course Description: In this class, students will continue to develop their ability to communicate in Spanish in everyday, practical situations that they might encounter both in the U.S. and abroad. Along with the developments of oral skills, students will also work on the other 3 vital components of language: reading, writing and listening comprehension. Students will actively engage themselves in pair/group activities to express themselves in basic situations. Classroom time will be used for intensive language practice in meaningful contexts. (i.e. applying important grammatical concepts, essential vocabulary, and cultural norms needed to maintain basic communication.) Class time will consist of communication activities following grammatical explanations. Students are expected to study and complete assigned workbook, video, lab and textbook activities outside of class.

Advanced Placement French

Course #: Grade Level: Credits: Length: Format: Prereguisite: DOF NCAA

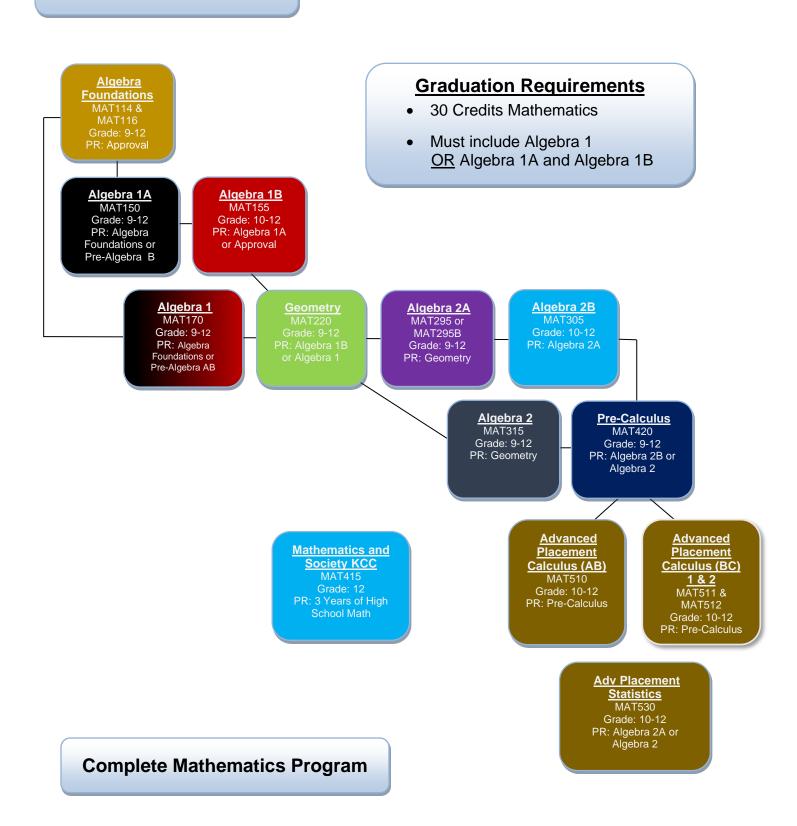
12 10 1 or 2 Semester(s) Block or Skinny French IV

FOR570

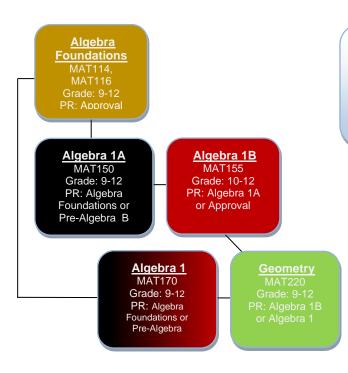
<u>Considerations</u>: See prerequisite. Class is conducted in French.

Course Description: This course continues to develop the "5 Cs" of second language acquisition (communication, cultures, connections, comparisons, and communities) by providing intensive practice in the fundamental communicative skills of listening, speaking, reading and writing, with a methodic study of different cultural contexts. This class offers the opportunity for language use beyond the sphere of the elementary language courses. Discussion of the cultural practices and products of Francophone countries presented in the readings and viewing materials constitute an important part of the course. Comparisons and connections between Francophone and Anglophone cultures and language are also studied as it is a major portion of the AP exam. This course offers university credit in the form of an AP Exam and therefore is considered a college level class.

Mathematics



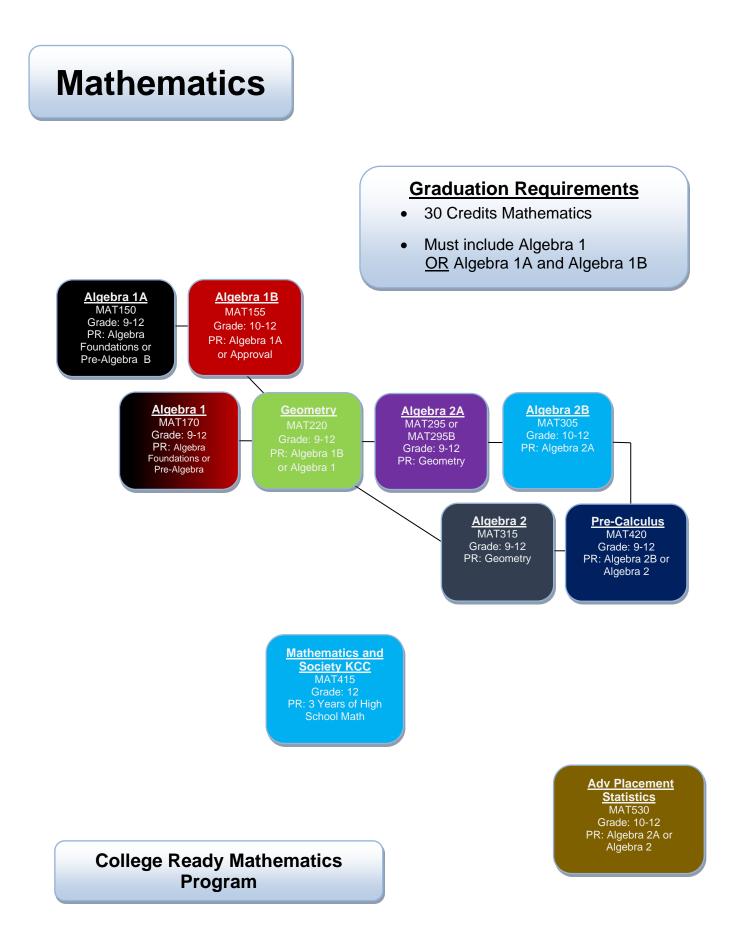
Mathematics



Graduation Requirements

- 30 Credits Mathematics
- Must include Algebra 1
 <u>OR</u> Algebra 1A and Algebra 1B

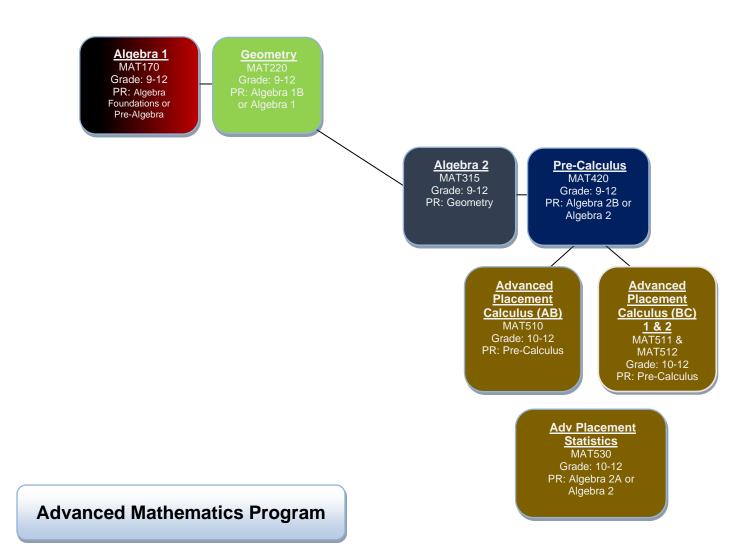
Basic Mathematics Program

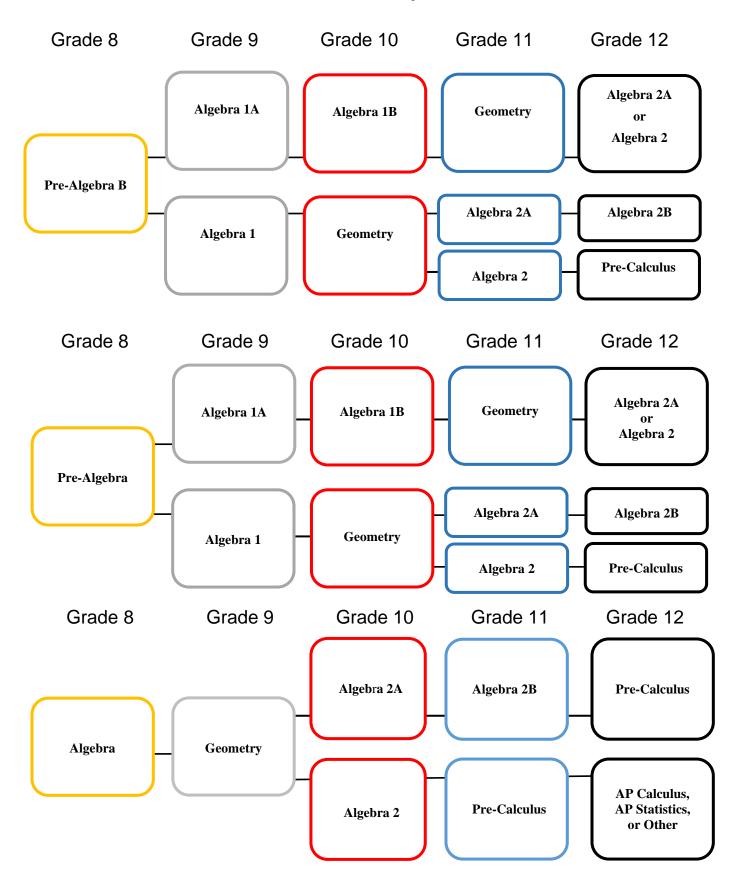


Mathematics

Graduation Requirements

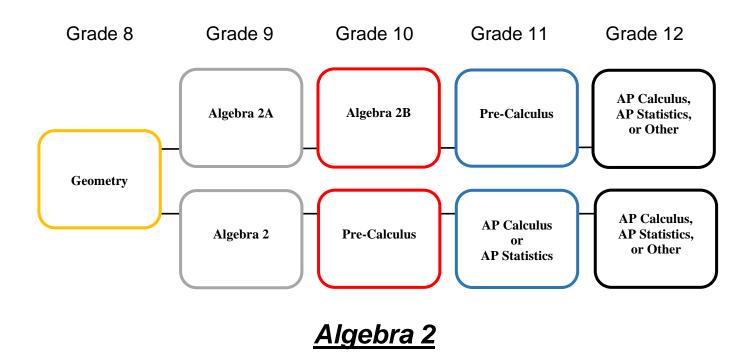
- 30 Credits Mathematics
- Must include Algebra 1
 <u>OR</u> Algebra 1A and Algebra 1B





Math Pathways

Math Pathways



This course is a combination of Algebra 2A and Algebra 2B in one course.

Things to consider before selecting Algebra 2 in 9th grade:

Incoming 9th grade students taking the Algebra 2 course will be maintaining acceleration in math which can result in serious math pathway concerns if they struggle with Algebra 2, Pre-Calculus, AP Calculus, or AP Statistics (three years of math are required for graduation).

<u>9th</u>	<u>10th</u>	<u>11th</u>	<u>12th</u>
Algebra 2 →	Pre-Calculus	 AP Calculus	→ AP Calc or AP Stats

- 1) Math skill level and effort: Students should have earned high level grades for Algebra 1A, Algebra 1B, or Algebra 1, and Geometry.
- 2) Students who struggle in Algebra 2 after the first three days of school must stay in the Algebra 2 course or they can drop it and take Algebra 2A the following year (sophomore year). The last option means that they would not be in a math class their freshman year and would eliminate the option of taking AP Calculus in high school.
- 3) Please choose the appropriate course based on the student's future math goals and for their passion for the subject matter.

Algebra Foundations

Course #:	MAT114 and MAT116
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny, 2 times per day
Prerequisite:	Teacher recommendation
	and administrative approval
Subsequent:	Algebra 1A or Algebra 1

Considerations: A scientific calculator or its equivalent required. Graphing calculators are not allowed in this course.

Course Description: This course is an introductory class for Algebra 1A or Algebra 1. It is designed to review basic skills and math concepts. Elementary algebra skills with variables and problem-solving techniques will be imperative to the curriculum.

Algebra 1A

Course #: Grade Level: Credits: 10 Length: Format: Prerequisite: Algebra 1B



Subsequent:

Considerations: Students are placed in this course per approval of the math department based on Pre-Algebra performance. A scientific calculator or equivalent is required. Graphing calculators are not allowed in this course. Algebra 1A and Algebra 1B together meet the Algebra graduation requirement.

Course Description: This course is designed to include material covered in the first semester of Algebra 1. Topics include negative numbers, absolute values, opposites, linear equations, and inequalities in word problems.

Algebra 1B

Course #: Grade Level: Credits: Length: Format: Prerequisite: Subsequent:

MAT155 10-12 10 2 Semesters Skinny Algebra 1A Geometry (recommended) Mathematics and Society

Considerations: Students are placed in this course per approval of the math department based on Pre-Algebra and Iowa Assessment scores. A scientific calculator or equivalent is required. Graphing calculators are not allowed in this course. Algebra 1A and Algebra 1B together meet the Algebra graduation requirement.

Course Description: This course is designed to include material covered in the second semester of Algebra 1. Topics include negative numbers, absolute values, opposites, linear equations, and inequalities in one variable word problems, factoring, graphing, and quadratic equations.

Algebra 1

Course #: Grade Level: Credits: Lenath: Format: Prerequisite:

MAT170 9-12 10 2 Semesters Skinny Pre-Algebra, Pre-Algebra B, or Algebra Foundations

Geometry

Subsequent:

Considerations: A scientific or graphing calculator is required.

Course Description: Algebra 1 deals with variables, properties of operations and formulas. Topics include negative numbers, absolute value, opposites, and linear equations in one variable, inequalities in one variable, word problems, factoring, graphing, and quadratic equations.

Algebra Priority Standards

Course #: Grade Level: Credits: Length: Format: Prerequisite:	MAT170PS 9-12 2.5 1 Quarter Skinny Teacher and/or Counselor Recommendation; Concurrent enrollment in
	Algebra 1

Considerations: Students are placed into this course by recommendation of a mathematics teacher or school counselor. This course is designed for students who struggle with the core concepts of Algebra 1.

Course Description: This course develops mathematical skills focused on the priority standards of Algebra 1. These topics include algebraic operations and reasoning, one-variable equations and inequalities, linear equations, exponents, factoring, and quadratics.

"Credit earned for Priority Standards classes does not count toward the 30 credit math graduation requirement."

Geometry

Course #: Grade Level: Credits: Length: Format: Prerequisite: Subsequent:

MAT220 9-12



10 2 Semesters Skinny Algebra 1 or Algebra 1B Algebra 2A or Accelerated Algebra 2 or Mathematics & Society

Considerations: A scientific or graphing calculator is required. Graphing calculators are not allowed in this course.

Course Description: Geometry introduces the study of points, lines, planes, polygons, circles, solid figures, and their associated relationships as a mathematical system. Emphasis is placed on the description and use of inductive, deductive, and intuitive reasoning skills. Power of abstract reasoning, spatial visualization and logical reasoning patterns are improved through this course. Focus on comparisons between figures concerning surface areas, volumes, congruency, similarity, transformations, and coordinate geometry is also studied through two and three dimensions.

Geometry Priority Standards

Course #:	MAT220PS
Grade Level:	9-12
Credits:	2.5
Length:	1 Quarter
Format:	Skinny
Prerequisite:	Teacher and/or Counselor
-	Recommendation;
	Concurrent enrollment in
	Geometry

Considerations: Students are placed into this course by recommendation of a mathematics teacher or school counselor. This course is designed for students who struggle with the core concepts of Geometry.

Course Description: This course develops mathematical skills focused on the priority standards of Geometry. These topics include points, lines, planes, polygons, circles, solid figures, and their associated relationships as a mathematical system. Emphasis is placed on the application of knowledge in algebraic and proof contexts.

"Credit earned for Priority Standards classes does not count toward the 30 credit math graduation requirement."

Algebra 2A

Course #:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
Subsequent:

MAT295 or MAT295B 9-12 10

2 Semesters Skinny Geometry Algebra 2B (recommended) or Mathematics Society or AP Statistics

<u>Considerations:</u> A graphing calculator is required. TI89 or TI-Nspire calculators are NOT allowed. *Earns 0.5 units of NCAA mathematics credit.*

Course Description: This course includes a variety of topics, including equations, inequalities, linear functions and relations, systems of equations and inequalities, quadratic functions and relations, polynomials and functions, inverse functions and relations, radical functions and relations, exponential functions and relations, logarithmic functions and relations, and rational functions and relations. This course fulfills minimum requirement for entry into most regent universities.

Algebra 2B

Course #: Grade Level Credits: Length Format: Prerequisite: Subsequent: MAT305 10-12 10 2 Semesters Skinny Algebra 2A Pre-Calculus (recommended) or AP Statistics or Mathematics & Society

<u>Considerations:</u> A graphing calculator is required. TI89 or TI-Nspire calculators are NOT allowed. *Earns 0.5 units of NCAA mathematics credit.*

Course Description: This course covers all topics in Algebra 2, not included in Algebra 2A: conic sections, sequences and series, statistics and probability. There is a heavy emphasis on trigonometric functions, trigonometric identities, and trigonometric equations.

Algebra 2

Course #: Grade Level: Credits: Length: Format: Prerequisite: MAT315 9-12 10 2 Semesters Skinny Algebra 1 proficiency of Level 3 or higher (greater than or equal to 90%) and Geometry Pre-Calculus (recommended) or Mathematics & Society or AP Statistics

Subsequent:

<u>Considerations:</u> Recommendation from a mathematics teacher. A graphing calculator IS required. TI89 or TI-Nspire calculators are NOT allowed.

Course Description: This course includes a variety of topics, including equations, inequalities, linear functions and relations, systems of equations and inequalities, quadratic functions and relations, polynomials and functions, inverse functions and relations, radical functions and relations, exponential functions and relations, logarithmic functions and relations, and rational functions and relations; and also included in this course is an extension of the above topics, as well as the new additional topics. These include factoring, solving equations, logarithmic functions and relations, conics (including rotations and transformations), sequences and series, trigonometry functions, trigonometry identities, and trigonometry equations.

Pre-Calculus

Course #: Grade Level: Credits: Length: Format: Prerequisite: Subsequent:

MAT420 9-12 10 2 Semesters Skinny Algebra 2B or Algebra 2 AP Calculus (recommended) or Mathematics & Society or AP Statistics

<u>Considerations</u>: Graphing calculator is required. TI89 and TI-Nspire calculators are not allowed.

Course Description: This course is designed for students who want to be better prepared for College Calculus or AP Calculus. This course has been enhanced with additional materials that promote a deeper mathematical understanding of the topics, extend known topics and present new topics that are generally not included in a high school curriculum. These topics will prepare the student for subsequent courses by improving their understanding of algebra and geometry concepts.

Advanced Placement

Course #: Grade Level: Credits: Length: Format: Prerequisite:

MAT510 10-12 10 2 Semesters Skinny Pre-Calculus

<u>Considerations:</u> Students may take the AP Calculus exam in May. Graphing calculator is required. TI84 is recommended.

Course Description: AP Calculus AB is roughly equivalent to a first semester college Calculus I course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. You'll learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. You will learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

Advanced Placement
Calculus (BC) 1 & 2Image: Constant of the second sec

<u>Considerations</u>: Students MUST sign up for both sections listed above. Students may take the AP Calculus exam in May. Graphing calculator is required.

Course Description: AP Calculus BC is equivalent to a full year of college Calculus. It covers both Calculus I and Calculus II. Students will analyze and solve non-trivial mathematical problems related to calculus. Mathematical modeling and communication will be emphasized. The course surveys the mathematics of change from elementary derivatives through sophisticated integrals to infinite series.

Advanced Placement Statistics

Course #:	MAT530
Grade Level:	10-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	Algebra 2A or
	Algebra 2
Subsequent:	Mathematics & Society
	or AP Calculus

<u>Considerations:</u> Students may take the AP Statistics exam in May. Graphing calculator is required.

Course Description: This course is a typical introductory college statistics course. It is divided into 4 major themes: exploratory data analysis, probability, statistical inference and planning, and conducting a study. Students will use both graphical and numerical techniques, probability to anticipate the distribution of data to be collected, design ways to collect data while avoiding bias, and make inferences from samples of data.

Mathematics and Society KCC

NCAA K

Course #: Grade Level: Credits: Length: Format: Prerequisite:

MAT415 12th Grade Only 5 (L-M) 3 (KCC) 1 Semester Skinny Three years of High School math

<u>Considerations</u>: See prerequisite. This is a dualcredit course and the expectations reflect those of a college course. In order to take this class, the student needs to register as a Kirkwood student earning college credit in high school by using this link:

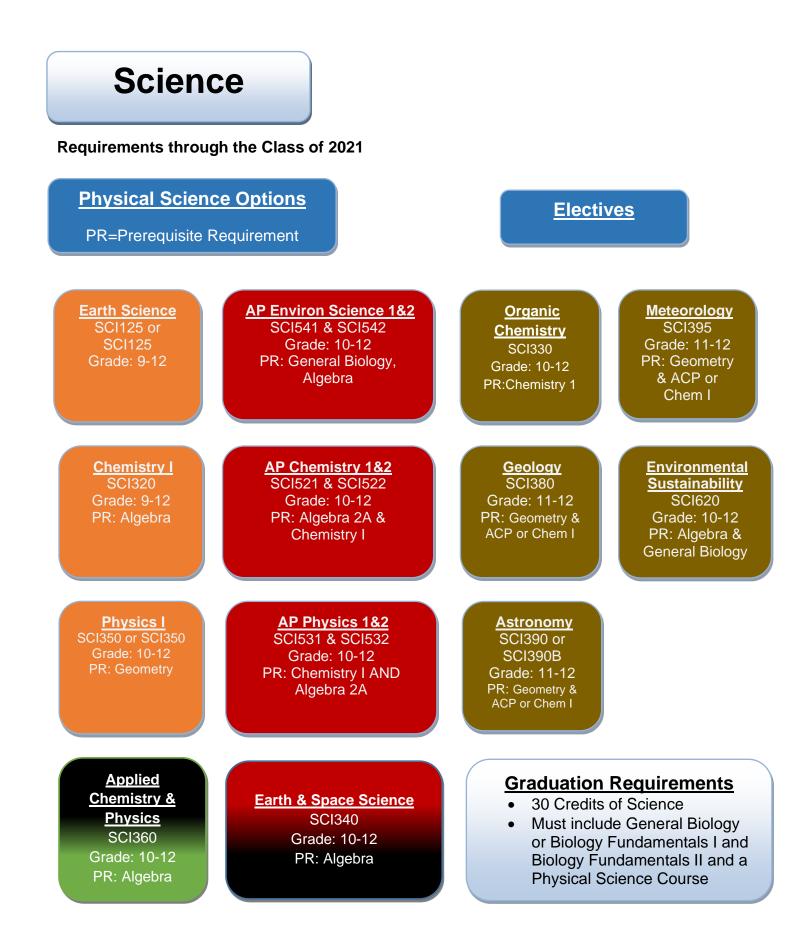
https://www.kirkwood.edu/site/index.php?d=725.

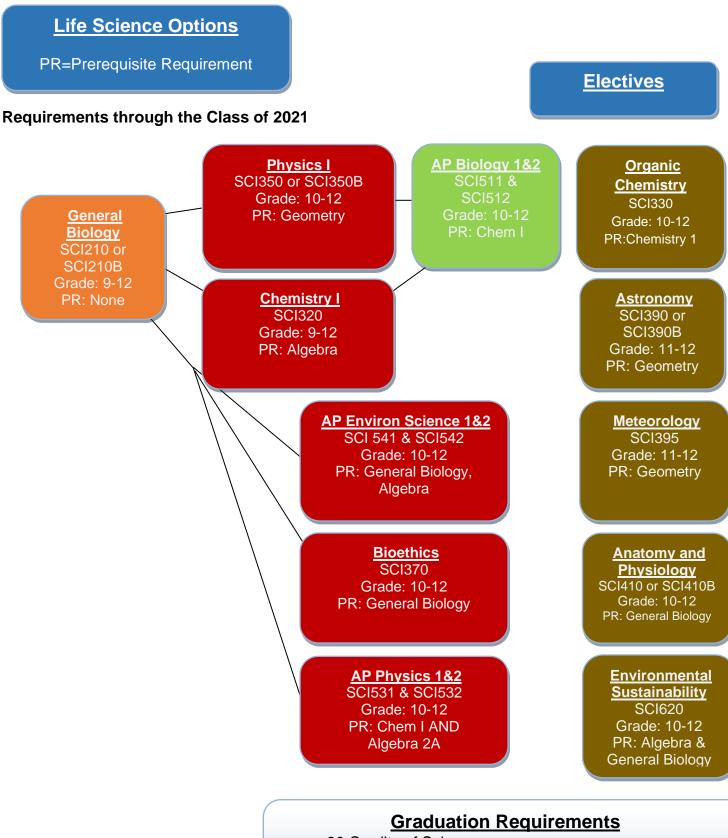
An additional requirement is an ACT score of 19 or higher OR a score of 30 or higher on the ALEKS math placement test

(<u>https://www.kirkwood.edu/placement</u>). Students can register for this course through Linn-Mar's registration procedures, but will need to meet the necessary test requirement by the first day of class at LMHS.

The following link provides information regarding taking placement tests in Kirkwood: <u>https://www.kirkwood.edu/testcenter</u>.

Course Description: This course introduces selected areas of mathematics in familiar settings and develops students' conceptual and problemsolving skills. The course includes a study of mathematical concepts selected from finance, statistics, probability, growth patterns and voting techniques.



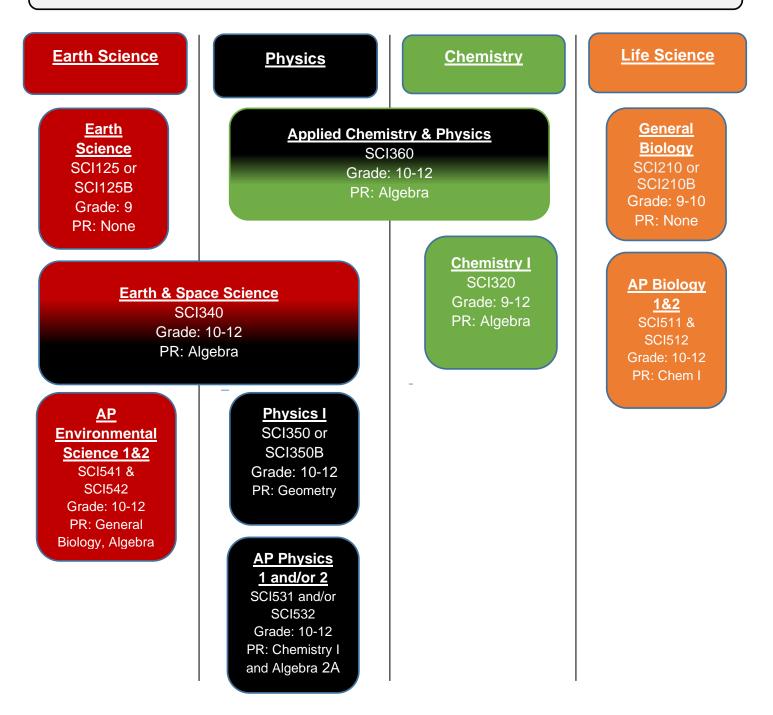


- 30 Credits of Science
- Must include General Biology or Biology Fundamentals I and Biology Fundamentals II and a Physical Science



Class of 2022 and later

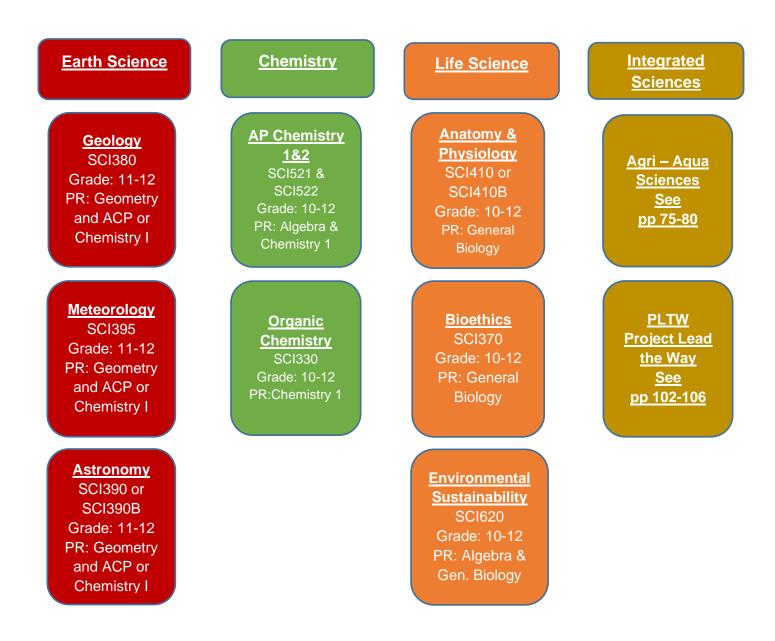
GRADUATION REQUIREMENT – Must take a course from each discipline (column) for a minimum of 30 credits. Two courses meet requirements for two different disciplines.



Science Electives

Class of 2022 and later.

Elective Science credits DO NOT fulfill Science credit requirements for graduation.



Earth Science

Course #: Grade Level: Credits: Length: Format: Prerequisite: SCI125, SCI125B 9-10 10 2 Quarters Block None

Considerations: Earth Science (SCI125, B) is a NGSS course based on the completion of NGSS Earth and Space Standards and successful completion will meet the earth science graduation requirement.

Course Description: This course is designed to allow students to develop an understanding of Earth's origin and interactions. Students will examine Earth's systems, Earth's place in the universe, and Earth and human activity.

General Biology

Course #: Grade Level: Credits: Length: Format: Prerequisite: SCI210, SCI210B 9-12 10 2 Quarters Block none

Considerations: General Biology is a NGSS course based on the completion of NGSS Life Science Standards and successful completion will meet the life science requirement. Students taking this course should have a strong comprehensive vocabulary, reading and study skills.

<u>Course Description:</u> This course is designed as a survey class in life science. The themes investigated are: From Molecules to Organisms; Heredity; Biological Evolution; and Ecosystems.

Chemistry I

Course #:	
Grade Level:	
Credits:	
Length:	
Format:	
Prerequisite:	

SCI320 9-12 10 2 Quarters Block Algebra

Considerations: Chemistry I is a NGSS course based on the completion of NGSS Physical Science Standards and successful completion will meet the chemistry portion of the physical science requirement. Students taking this course must have completed Algebra. This course is also required for students wishing to take AP Chemistry, AP Biology or AP Environmental Science.

<u>Course Description</u>: This course is designed to explore the nature of matter and how it changes. It emphasizes the relationship between chemistry and real-world applications. Chemistry I is intended for students with a strong interest in science, math, or engineering careers.

Organic Chemistry

Course #:	SCI330
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Chemistry I

Considerations: See prerequisites.

Course Description: This quarter-long course is designed to provide a limited exploration of the concepts essential to college-level Organic Chemistry: Bonding, Isomers, Properties, Naming, Functional Groups and Types of Reactions/ Reaction Mechanisms associated with each – substitution, elimination & addition, as well as an introduction to the limitless applications of organic chemistry throughout agriculture, life sciences, medicine, and issues related to consumers, the environment and society.

Earth and Space Science

Course #: Grade Level: Credits: Length: Format: Prerequisite: SCI340, SCI340B 10-12 10 2 Quarters Block Algebra



Considerations: Earth and Space Science is based on the completion of NGSS Physical Science Standards and Earth and Space Standards and successful completion will meet the physics portion of the physical science graduation requirement and the earth science graduation requirement. Students taking this course must have completed Algebra.

Course Description: This course is designed to help students develop an understanding of the big ideas of the Physics Standards and will be applied through the Earth Science Standards. Physics content includes force, motion, momentum, collisions, energy transformations, electromagnetism, waves and light. Earth Science content includes materials of Earth, its internal and exterior processes, geological history, and how Earth's systems interact, change over time and its role in the universe.

Physics I Course #: Grade Level: Credits: Length: Format: Prerequisite:

SCI350, SCI350B 10-12 10 2 Quarters Block Geometry

<u>Considerations:</u> Physics I is based on the completion of NGSS Physical Science Standards and successful completion will meet the physics portion of the physical science graduation requirement. Students taking this course must have completed Geometry.

<u>Course Description:</u> This course is designed to examine the fundamental properties and laws of the physical world. These properties include motion, forces, momentum, energy and waves.

Applied Chemistry and Physics

Course #:	SCI360, SCI360B
Grade Level:	10-12
Credits:	
Length:	2 Quarters
Format:	Block
Prerequisite:	Algebra

<u>Considerations</u>: Applied Chemistry and Physics is based on the completion of NGSS Physical Science Standards and successful completion will meet the physical science graduation requirement. Students taking this course must have completed Algebra.

Course Description: This course is designed to allow students to explore the big ideas in Chemistry and Physics. Chemistry concepts include properties of matter, the influence of electrons on behavior of the chemical elements, behavior of chemical reactions, and nuclear reactions. Physics content includes force, motion, momentum, collisions, energy transformations, electromagnetism, waves, and light.

Bioethics

Course #: Grade Level: Credits: Length: Format: Prerequisite: SCI370 10-12 5 1 Quarter Block General Biology

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Considerations: Bioethics is a science elective course. Students taking this course must have completed General Biology.

<u>Course Description</u>: This course examines contemporary ethical issues in genetics, medicine, health, animal use, and the environment, reflecting on the ways in which technology and varying perspectives have resulted in conflict within society.

SCI380

Geology

Course #: Grade Level: Credits: Length: Format: Prerequisite:

11-12 5 1 Quarter Block Geometry and Chemistry 1 or Applied Chemistry and Physics

Considerations: Geology is a science elective course. Students taking this course must have completed Geometry and Applied Chemistry and Physics or Chemistry I.

Course Description: This course is designed to allow students to receive an intense, in-depth look into the core subjects of geology including physical, structural and environmental geology, crystallography, mineralogy, stratigraphy, and geomorphology.

<u>Astronomy</u>

Course #: Grade Level: Credits: Length: Format: Prerequisite:

11-12 5 1 Quarter Block Geometry and Applied Chemistry and Physics or Chemistry I

Considerations: Astronomy is a science elective course. Students taking this course must have completed Geometry and Applied Chemistry and Physics or Chemistry I.

Course Description: This course is designed to allow students to receive an intense, in-depth look at astronomy topics including astronomical history, stellar measuring, stellar evolution, forces (gravitational, inertial, nuclear, magnetic, etc.) and the universe (theories, black matter, quasars, etc.).

<u>Meteorology</u>

Course #: SCI395 Grade Level: 11-12 Credits: 5 Length: 1 Quarter Format: Block Prerequisite: Geometry and Applied Chemistry and Physics or Chemistry I

Considerations: Meteorology is a science elective course. Students taking this course must have completed Geometry and ACP (Applied Chemistry and Physics) or Chemistry I.

Course Description: This course is designed to allow students to receive an intense, in-depth look at topics relating to the atmosphere. Students will focus on forecasting weather, using severe weather as its guideline.







Anatomy & Physiology

Course #: Grade Level: Credits: Length: Format: Prerequisite: SCI410, SCI410B 10-12 10 2 Quarters Block General Biology

<u>Considerations:</u> Anatomy & Physiology is a science elective course. Students taking this course must have completed General Biology.

Course Description: This course is designed to allow students to study the fundamental concepts of human structure and function as it pertains to their bodies. It is designed to lead students into a basic career in the health field and prepare students for post-secondary education. One critical instructional element of anatomy to help foster an understanding of structures and functions is the exploration and dissection of animal tissues, organs, and bodies.

Advanced Placement



Biology 1 & 2Course #:SGrade Level:1Credits:1Length:3Format:BPrerequisite:C

SCI511 & SCI512 10-12 15 3 Quarters Block Chemistry I

Considerations: Advanced Placement Biology 1 & 2 is a NGSS course based on the completion of NGSS Life Science Standards and successful completion will meet the life science requirement for graduation. Students MUST sign up for both sections listed above. General Biology is recommended but not required for enrollment in AP Biology. Students taking this course must have completed Chemistry I. Students may take the AP Biology exam in May.

Course Description: This course is designed as an in-depth study of the field of biology. Areas of emphasis include energy pathways; the cell; genetics and genetic engineering; and organisms and their environments.

Advanced Placement Chemistry 1 & 2

Course #: Grade Level: Credits: Length: Format: Prerequisite: SCI521 & SCI522 10-12 15 3 Quarters Block Chemistry I and Advanced Algebra IIA

Considerations: Students MUST sign up for both sections listed above. Students taking this course must have completed Chemistry I and Advance Algebra IIA. Students may take the Chemistry AP exam in May.

<u>Course Description:</u> This course is designed to cover the basics of chemistry at the college level. Areas of emphasis include atomic structure, molecular bonding, thermochemistry, kinetics, and chemical equilibria.



Advanced Placement Physics 1

CI531
-12
1
Quarters
ock
emistry I AND Algebra 2A

Considerations: Advanced Placement Physics I is based on the completion of NGSS Physical Science Standards and successful completion will meet the physics portion of the physical science graduation requirement. It is recommended that students sign up for both AP Physics I and AP Physics II. Physics I is NOT a prerequisite for this class. See prerequisites. Students may take the AP Physics 1 exam in May.

<u>Course Description:</u> This course covers College Physics I. Students taking this class should have a strong interest in the practical applications of mathematics to real-life scenarios. Areas of emphasis include; experimental design, kinematics, newton's laws, gravitation, electricity, and waves. W

Advanced Placement Physics 2

Course #:	SCI532
Grade Level:	10-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	AP Physics I or Physics I

<u>**Considerations:**</u> Physics I or AP Physics 1 is a prerequisite for this class. Students may take the AP Physics 2 exam in May.

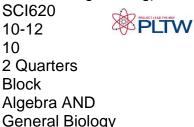
Course Description: This course covers College Physics II. Students taking this course should have a strong interest in the practical applications of mathematics to real-life scenarios. Areas of emphasis include; experimental design, thermodynamics, fluid-mechanics, optics, electric circuits, magnetism, and modern physics.

Environmental Sustainability



(Previously was Biotechnical Engineering)

Course #: Grade Level: Credits: Length: Format: Prerequisite:



<u>Considerations:</u> See prerequisites. This is course in the Project Lead the Way engineering sequence. Students will earn credit for this course from Kirkwood Community College upon successful completion.

Course Description: Students will investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply issues, and renewable energy. Applying their knowledge through hands-on activities and simulations, students' research and design potential solutions to these true-to-life challenges.

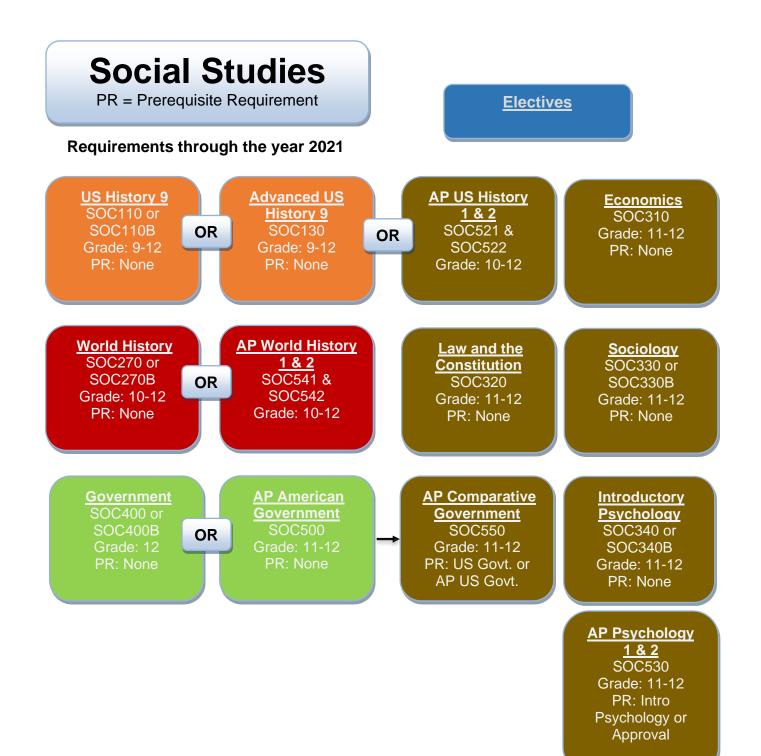
Advanced Placement Environmental Science 1 & 2

Course #:	SCI541 & SCI542
Grade Level:	10-12 🕋 🦱 🚺
Credits:	15 Beard of W
Length:	3 Quarters
Format:	Block
Prerequisite:	General Biology and Algebra

Considerations: Advanced Placement Environmental Science 1 & 2 is a NGSS course based on the completion of NGSS Earth Science Standards and successful completion will meet the earth science requirement for graduation. Students MUST sign up for both sections listed above. Students taking this course must have completed General Biology and Algebra. Students MUST sign up for both sections listed above. Students may take the AP exam in May.

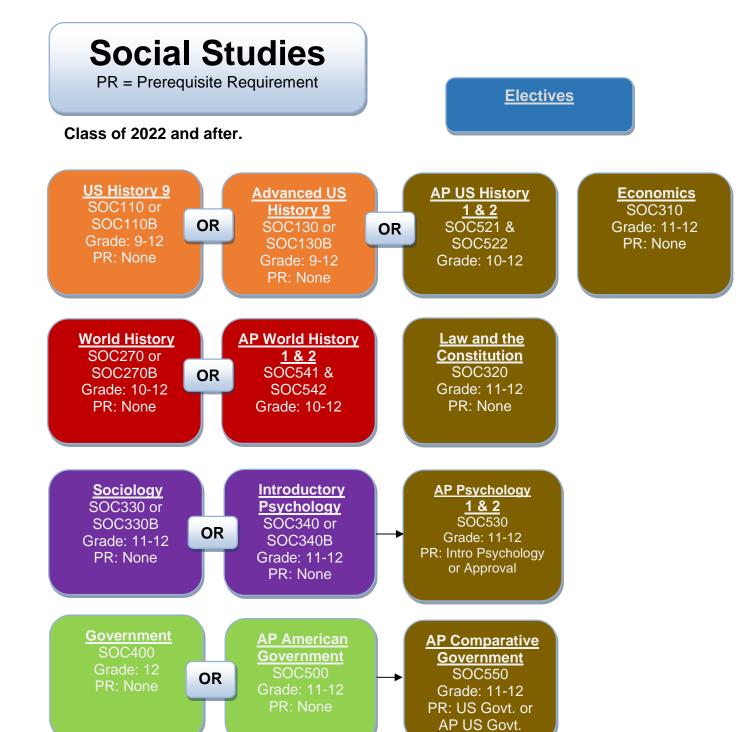
Course Description: The goal of AP Environmental Science is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative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

> Elective Science credit can also be found in the Agricultural Science and PLTW sections.



Graduation Requirements

- 30 Credits of Social Studies
- US History 9, Advanced US History 9, or AP US History
- World History or AP World History
- Government
- One Social Studies Elective



Graduation Requirements

- 30 Credits of Social Studies
- US History 9, Advanced US History 9, or AP US History
- World History or AP World History
- Sociology or Introductory Psychology
- Government

US History 9

Course #: Grade Level: Credits: Length: Format: Prerequisite:

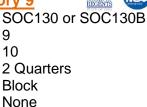
SOC110 or SOC110B 9 10 2 Quarters Block None

Considerations: Required for graduation.

Course Description: US History 9 examines American history from the Gilded Age to the present, focusing on the people, ideas and events that have helped create the nation and world we live in today. Students are required to examine why events happened as they did and explain how our past is related to our present. A variety of learning activities, requiring both group and individual effort, allow students to become actively involved learners.

Advanced US History 9

Course #: Grade Level: Credits: Length: Format: Prerequisite:



Considerations: Recommended for students with a strong interest in reading and writing in history. Students successful in this course may move into the AP World History elective to satisfy their world history requirement. US History 9, Advanced US History 9, OR AP US History is required for graduation.

Course Description: This course explores the Gilded Age to present focusing on people, ideas, and events that have helped to create the nation and world we live in today. Strong emphasis is placed on developing skills in writing, interpretation and analysis of primary historical documents. Students will examine events and ideas from a variety of perspectives as they learn how to take a position on an issue, develop a thesis statement and use evidence to defend their position.

World History

Course #:	
Grade Level:	
Credits:	
Length:	
Format:	
Prerequisite:	

SOC270 or SOC270B 10-12 10 2 Quarters Block None

Considerations: See prerequisites. World History OR AP World History is required for graduation.

Course Description: This course investigates the foundations of our modern world. This will be done by researching various civilizations from ancient civilizations through modern times. Students will evaluate the changing nature of the world's political, economic and social systems.

Economics

Course #:	SOC310
Grade Level:	11-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: Students should be comfortable working with charts and tables.

Course Description: This course will focus on economic concepts (scarcity, choice, incentives); supply, demand, and markets; microeconomics (production, productivity, competitive markets); and macroeconomics (the economy in the aggregate, inflation, unemployment).



Law and the Constitution

Course #:SOC320Grade Level:11-12Credits:5Length:1 QuarterFormat:BlockPrerequisite:none

<u>Considerations</u>: Meets the social studies elective graduation requirement.

Course Description: This course focuses on the origins of legal rights in the United States. With a particular focus on Constitutional structure and the Bill of Rights, students will examine the development, structure and operation of the American legal system including citizen rights and responsibilities, the role of the US Supreme Court and the Iowa court system, the Iowa Code and the functions of the courts by experiencing a mock trial.

<u>Sociology</u>

Course #: Grade Level: Credits: Length: Format: Prerequisite: SOC330 or SOC330B 11-12 5 1 Quarter Block none

<u>Considerations:</u> Meets the Behavioral Sciences graduation requirement.

<u>Course Description</u>: This course is a study of human group behavior and social problems. The course will explore the following concepts: culture, socialization, deviance and social control, social stratification, minority groups, marriage and family.

Introductory Psychology

Course #:	SOC340 or SOC340B
Grade Level:	11-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	none

NCAA

<u>Considerations:</u> Meets the Behavioral Sciences graduation requirement. This course is taught at the college-prep level and requires higher order thinking skills and work outside of the class room to be successful.

Course Description: This course is designed to help students understand human behavior. Students will learn about psychology as a science, career options, methods of learning, human development, personality development and psychological illness.

GovernmentImage: Course #:Image: Course #:Course #:SOC400, SOC400B, or
SOC401EGrade Level:12Credits:5Length:1 QuarterFormat:BlockPrerequisite:none

<u>Considerations</u>: Government or AP American Government is required for graduation.

<u>Course Description:</u> Course highlights will include a study of the three branches of government, political voting behavior, political party membership, interest groups and elected officials. Students will study the underlying principles upon which the US government is based: limited government, rules of law, federalism and protection of individual rights.

Advanced Placement American Government

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Course #:SOC500Grade Level:11-12 or approvalCredits:10Length:2 Quarters during
second semesterFormat:BlockPrerequisite:none

Format: Block Prerequisite: none Considerations: Instructor approval for 10th graders. Fulfills the government graduation

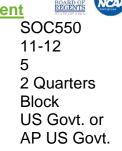
graders. Fulfills the government graduation requirement. Students may take the American Government AP exam in May.

<u>Course Description</u>: Several topics covered in this course include: Constitutional underpinnings, political beliefs & behaviors, political parties, interest groups & mass media, institutions of national government, public policy & civil rights and civil liberties.

Advanced Placement

Comparative Government Course #:

Grade Level: Credits: Length: Format: Prerequisite:



<u>Considerations:</u> Could be linked with AP US Government for a year-long AP Government course. AP exam would be optional.

<u>Course Description:</u> AP Comparative Government is a semester-long (block) course comparing governmental systems of Great Britain, Russia, China, Mexico, Nigeria and Iran. It is intended to follow US Government in greater depth and introduce students to more global international relations concepts and a broader, current understanding of the world we live in.

Advanced Placement US History 1 & 2

Course #: Grade Level: Credits: Length: Format: Prerequisite: SOC521 & SOC522 10-12 15 3 Quarters Block US History 9 OR Advanced US History 9 is recommended

Considerations: Instructor approval for 10th graders. Students MUST sign up for both sections listed above. Fulfills the US history graduation requirement. This course begins in 2nd quarter. Students may take the US History AP exam in May.

<u>Course Description:</u> Students will participate in reading primary and secondary history materials, lectures, research projects, and group and individual presentations. College level work is expected in this survey course which covers the full range of US history from the early European explorations to the present.

Advanced Placement Psychology 1 & 2



Course #:	SOC530
Grade Level:	11-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	Intro. Psych
•	OR approva

 Prerequisite:
 Intro. Psychology OR approval

 Considerations:
 Textbooks are available for purchase online but one will be provided in class.

 Class is geared to prep students to take the

class is geared to prep students to take th national AP Psychology exam in May.

Course Description: Areas studied: history and approaches, states of consciousness, biological bases of behavior, cognition, testing and individual differences, sensation and perception, motivation and emotion, abnormal psychology and treatment, and social psychology. College level work is expected, as this is a college level course.

Advanced Placement World History 1 & 2

Course #: Grade Level: Credits: Length: Format:

SOC541 & SOC542 10-12 15 3 Quarters

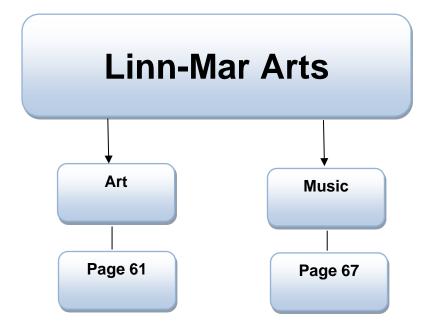
NCA

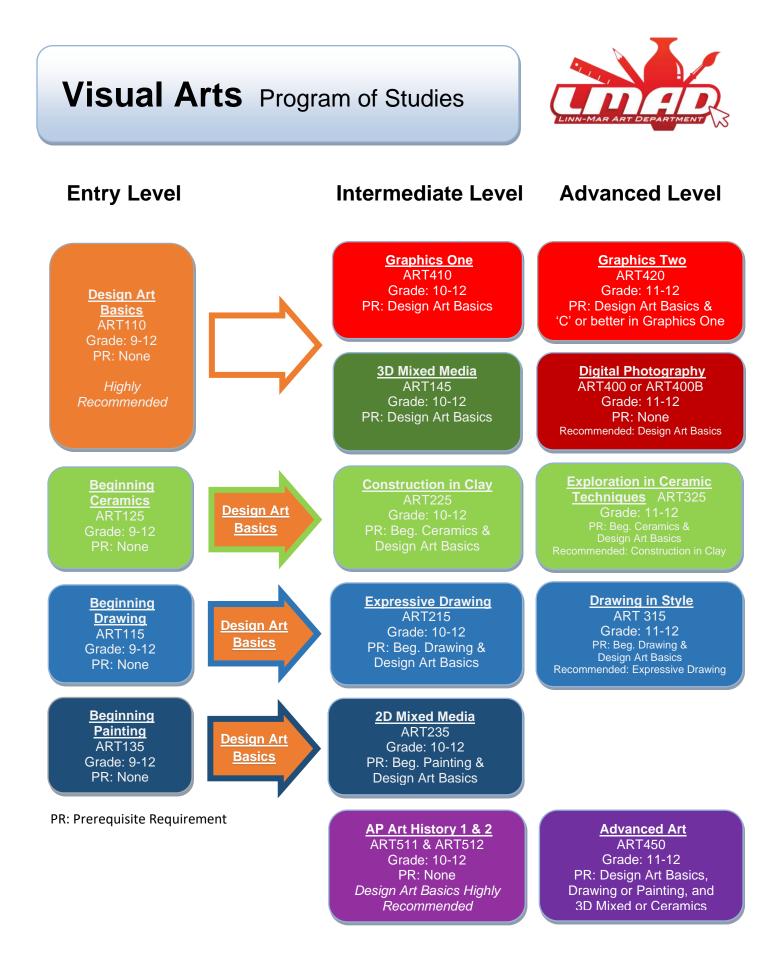


Block Prerequisite: none **Considerations:** Students MUST sign up for both

sections listed above. Fulfills the required world history requirement. Duration is three quarters beginning in 2nd quarter. Students may take the World History AP exam in May.

Course Description: This course is a broad survey of the major periods of human history from a global comparative perspective. Students will study the events and trends that have shaped the world into what it is today, while refining their study, writing and critical thinking skills.





Design Art Basics

Course #:	ART110
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

<u>Considerations</u>: This course is a basic design course which is **highly recommended** before taking any art course.

Course Description: This is a design course that teaches basic visual literacy. By learning about the elements and principles of art, students will learn what visual images communicate. Students will gain a better understanding of how and what they are communicating in their art work through direct application of the elements and principals. Students will develop technical skills through the use of a variety of mediums including computer-generated images.

Beginning Drawing

Course #:	ART115
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: This course is for the student that wants to improve their drawing skills. Design Art Basics is highly recommended.

Course Description: Students will draw from both life and photographic images. Emphasis will be placed on tone, line, value, and proportion. Students will also learn linear perspective drawing. The works of other artists, past and present, will be studied.

Beginning Ceramics

Course #:	ART125
Grade Level:	9-12
Credits:	5
Length	1 Quarter
Format	Block
Prerequisite:	None

Considerations: Design Art Basics is strongly encouraged before taking this course. Students will be required to take a written midterm, as well as a written final. Students may need to spend extra time in the studio to complete all of their course work. This class is for motivated, hands-on students.

Course Description: Like getting dirty? Working with your hands? Then Beginning Ceramics is right for you. Beginning Ceramics allows students to dig into clay and learn the basic hand building methods: pinch, coil, slab and sculpting. Students will also learn how to use the potter's wheel to create simple forms. Students will learn the scientific principle of clay and glazes. Class will be spent learning these skills and applying these skills to specific projects over the course of the quarter. Creativity is a must as well as using fundamentally sound techniques.

Beginning Painting

Course #:	Art135
Grade Level:	9-12
Credits:	5
Length	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: Design Art Basics

<u>Course Description</u>: Students will be introduced to a variety of water-based paints: water color, tempera and acrylic. Students will explore the history, vocabulary, and process used in this type of painting. Students will learn how art is used for personal expression and as social statements.

3-D Mixed Media

Course #:	ART145
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Design Art Basics

Considerations: Design Art Basics is required. This course will involve written work as well as art work projects. Presentations and class discussions are regular occurrences in this course.

<u>Course Description:</u> Students will learn a variety of techniques related to 3-D Art, such as, sculpture in the round, relief, assemblage, mobiles, and installations. Students will learn to create art by reflecting on their own personal experiences and by researching other cultures.

Expressive Drawing

Course #:	ART215
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Beg. Drawing and
-	Design Art Basics

<u>Considerations:</u> Students will draw everyday developing ideas, revising compositions and creating projects. Students will participate in oral class critiques.

Course Description: Students will continue to build on the skills learned in Beginning Drawing. Emphasis will be placed on composition and mood of each drawing. Human figure studies and experimentation of a variety of media will be stressed throughout the quarter. The works of the artists, past and present, will be studied.

Construction in Clay

Course #:	ART225
Grade Level:	10-12
Credit Hours:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Beg. Ceramics and
	Design Art Basics

Considerations: This class is for the more serious ceramic student. More in-depth work will be done on the wheel as well as hand building. Beginning Ceramic and Design Art Basics are required for taking this class.

Course Description: Students will review and expand on techniques learned in Beginning Ceramics. Emphasis in this class will be placed on alternative firings and construction methods. Students will investigate new ways of hand-building, firing, artists and styles. Skills will continue to be developed on the wheel to create bowls and cylinders. Students will use clay as an expressive medium to communicate ideas, feelings, thoughts, emotions and moods in their work.

2-D Mixed Media

Course #:	ART235
Grade Level:	10-12
Credits:	5
Length	1 Quarter
Format:	Block
Prerequisite:	Design Art Basics
	And Beg. Painting

Considerations:

Course Description: Students will continue to develop the skills learned in Art Basics and experiment new techniques using a wide variety of materials, including oil paint, collage, and Xerox transfer. Students will learn how to communicate their ideas in creative ways by combining paint with other materials to create their art work.

Drawing In Style

Course #:	ART315
Grade Level:	11-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Beginning Drawing
-	and Design Art Basics

<u>Considerations</u>: This course will require drawing on a daily basis and researching a variety of topics to provide inspiration for artwork. This course is recommended to be taken after ART215.

Course Description: This course is for students who desire to create in-depth drawings in a variety of media including ink, charcoal, pencil, chalk, and computer. Students will begin to develop a personal style and applying their imagination to create unique and original works of art. The works of other artist, past and present, will be studied.

Exploration in Ceramic Technique

Course #:	ART325
Grade Level:	11-12
Credits:	5
Length:	1Quarter
Format:	Block
Prerequisite:	Beg. Ceramics and
	Design Art Basics

Considerations: Construction in Clay is highly recommended before this course. This class is for the serious, dedicated ceramic student looking to develop a portfolio, considering art as a career or highly interested in ceramic arts.

<u>Course Description:</u> This class places an emphasis on the wheel and requires the production of wheel throwing portfolio. Students will also select different hand-building techniques to communicate visual ideas in clay. This class allows for deeper exploration of ceramic techniques, glazing and firings. Students will experiment using various new ways of working with clay.

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Digital Photography

Course #:	ART400 or ART400B
Grade Level:	11-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

<u>Considerations</u>: Design Art Basics is strongly recommended before taking this class.

Course Description: In this class students will become familiar with the fundamentals of digital photography. Topics will include: basic workings of a digital camera, compositions for photography, how lighting affects photographs and use of Adobe Photoshop editing programs. Students will participate in various photo shoots including: portrait, landscape, still life and various others. Critiques and regular class discussions are the norm for this class. Digital photography will change your way of seeing; taking pictures will become more than just capturing a moment in time, but creating visual communication through the use of a camera.

Graphics One

Course #	ART410
Grade Level:	10 -12
Credits:	5
Length	1 Quarter
Format	Block
Prerequisite	Design Art Basics

Considerations: The coursework relies heavily on the use of the Adobe Creative Suite as well as emerging technologies. The class requires students to be creative, independent, focused, and project driven.

Course Description: Graphics One will explore several areas of the current graphics industry. The class will provide rigorous, real world situations where students utilize professional programs from the Adobe Creative Suite along with their knowledge of the fine arts to create high end, visually stunning art and presentations. Projects will stem from the graphically visual world we live in today and pull from such topics as Brand Identity, Marketing, and Web Presence. We will also discuss the benefits of digital portfolios as well as the importance of the creative mind in today's technology driven society.

Graphics Two

ART420
11-12
5
1 Quarter
Block
"C" or better in Graphics
One & Design Art Basics

Considerations: The coursework relies heavily on the use of the Adobe Creative Suite, specifically Adobe Illustrator. The class requires students to be creative, independent, focused, and project driven. Student/ course work will be cloud based utilizing the school shared drive as well as Power School Learning.

Course Description: Graphics Two continues to push the boundaries of design with in-depth rigorous approaches utilizing the skills learned in Graphics One. Projects will continue to challenge and polish a student's understanding of typography, grid, composition, & layout. Students will have the opportunity to further develop their skills using the Adobe Creative Suite, as well as having access to iPad Pro's and Digital SLR Camera's. Additionally, all coursework will benefit students interested in developing a design portfolio.

Advanced Art

Course #:	ART450
Grade Level:	11-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	1) Design Art Basics
	Painting or Drawing
	3) 3-D Mixed or Ceramics

Considerations: 11th and 12th grade students only

Course Description: This class will emphasize preparing a portfolio for scholarship, college admission, and learning about art-related careers. Students will learn attitudes that promote independent idea development and problem solving. They will explore selected ideas and media in depth in their development as beginning artist.

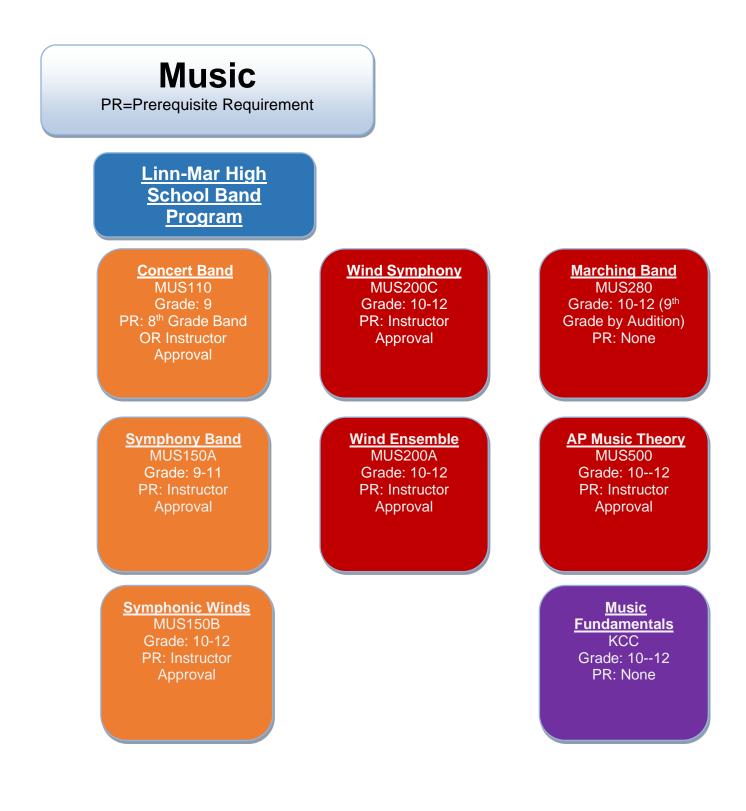
AP Art History 1 & 2

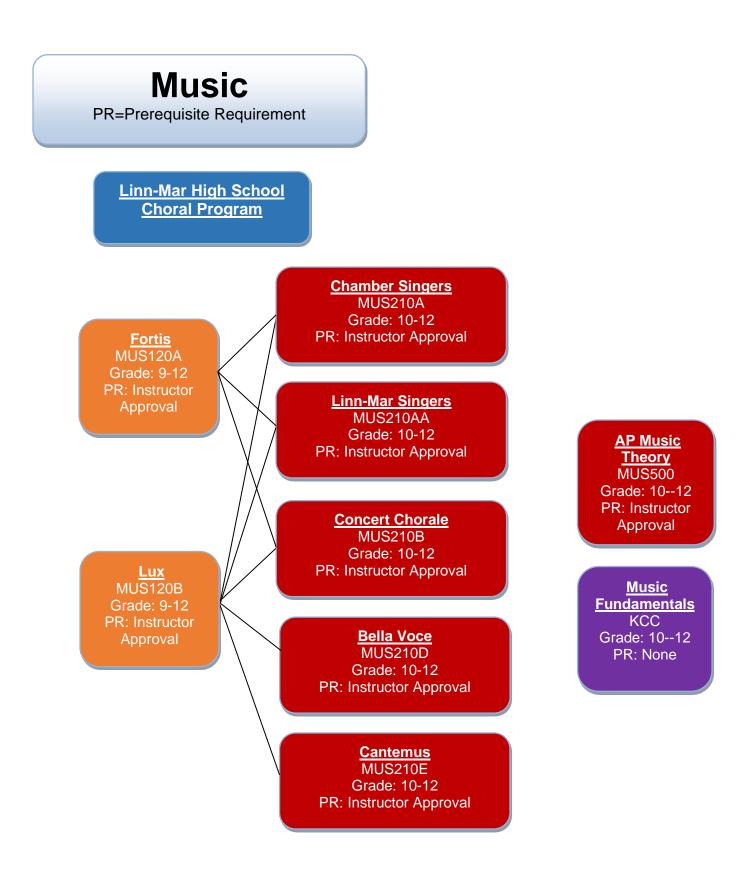
Course #:	
Grade Level:	
Credits:	
Length:	
Format:	
Prerequisite:	

ART511 & ART512 10-12 15 3 Quarters Block None, Design highly Recommended

Considerations: Students MUST sign up for both sections listed above. Instructor approval for 10th graders. Students may take the AP Art History exam in May. Students scoring a 3 or above will earn college course credit at most universities, which will satisfy a general education requirement.

<u>Course Description:</u> This course will engage students at the same level as an introductory college art history survey. Students will develop an understanding and knowledge of diverse historical, religious, political, and sociological contexts of architecture, sculpture and painting. The students will examine and critically analyze works from the past and present from all corners of the World. The essential question for this class is, "What does it mean to be Human?"





Music

PR=Prerequisite Requirement

Linn-Mar High School Orchestra Program

> Concert Orchestra (Red) MUS230-1 Grade: 9-11 PR: Instructor Placement

Concert Orchestra (Black) MUS230-2 Grade: 9-12 PR: Instructor Approval

Philharmonic Orchestra MUS290 Grade: 9-12 PR: Instructor Approval

Symphony Strings MUS240 Grade: 9-12 PR: Instructor Placement AP Music Theory MUS500 Grade: 10--12 PR: Instructor Approval

Music Fundamentals KCC Grade: 10-12 PR: None

Concert Band

MUS110
9
10
2 Semesters
Skinny
8 th grade band OR Instructor approval

Fees: \$45.00 rental if using a school wind instrument or percussion instrument.

<u>Considerations:</u> Some instruments are provided. Most students own their own instrument.

Course Description: This course is a concert band which rehearses daily. . The group learns and performs concert band music- Emphasis is on the preparation and performance of high school level quality music literature. Students will also participate in a brass, woodwind, or percussion ensemble during the third quarter. In addition, members will learn fundamentals of marching. Each member receives a lesson each six day cycle.

Symphony Band

Course #:	MUS150A
Grade Level:	9-11
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	Participation in a school band the prior year OR Instructor Approval

Fees: \$45.00 rental if using a school wind instrument or percussion instrument.

<u>Considerations:</u> Some instruments are provided. Most students own their own instrument.

Course Description: This course is a concert band which rehearses daily. The group learns and performs concert band music. Emphasis is on the preparation and performance of high school level quality music literature. Students will also participate in a brass, woodwind, or percussion ensemble during the third quarter. Each member in grades 9-10 receives a lesson each six day cycle.

Symphonic Winds

Course #:	MUS150B
Grade Level:	10-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	Participation in a school
	band the prior year OR
	instructor approval

Fees: \$45.00 rental if using a school wind instrument or percussion instrument.

<u>Considerations</u>: Some instruments are provided. Most students own their own instrument.

Course Description: This course is a concert band which rehearses daily. The group learns and performs concert band music. Emphasis is on the preparation and performance of high school level quality music literature. Students will also participate in a brass, woodwind, or percussion ensemble during the third quarter. Each member in grade 10 receives a lesson each six day cycle.

Wind Symphony

MUS200C
10-12
10
2 Semesters
Skinny
Participation in a school
band the prior year OR
Instructor Approval

Fees: \$45.00 rental if using a school wind instrument or percussion instrument.

<u>Considerations:</u> Some instruments are provided. Most students own their own instrument.

Course Description: This course is a concert band which rehearses daily. The group learns and performs concert band music. Emphasis is on the preparation and performance of advanced high school and college level music. Students will also participate in a brass, woodwind, or percussion ensemble during the third quarter. Each member in Grade 10 receives a lesson each six day cycle. Private lessons are recommended.

Wind Ensemble

Course #:	MUS200A
Grade Level:	10-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	Participation in a school band the prior year OR Instructor Approval

Fees: \$45.00 rental if using a school wind instrument or percussion instrument.

Considerations: Some instruments are provided. Most students own their own instrument.

Course Description: This course is a concert and which rehearses daily. The group learns and performs concert band music. Emphasis is on the preparation and performance of college/university level band music. Students will also participate in a brass, woodwind, or percussion ensemble during the third quarter. Each member in grade 10 receives a lesson each six day cycle. Private lessons are recommended.

Lux Course #: MUS120B Grade: 9-12 Credits: 10 Length: 2 semesters Format: Skinny

Prerequisite:

2 semesters Skinny Instructor Approval

<u>Considerations</u>: 10-12 grades Sopranos and Altos must audition to be placed in this choir. 9th grade Soprano and Alto voices are automatically placed in this choir.

<u>Course Description:</u> The choir of only Soprano and Alto voices rehearses and performs four concerts locally each school year. Fundamentals of good singing, musical literacy, and group dynamics are stressed. Each student will receive a private lesson every week of the school year starting 2nd quarter.

Fortis

Course #:	MUS120A
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	Instructor Approval

Considerations: 10-12 grade Tenor and Bass voices must audition to be placed in this choir. 9th grade Tenor and Bass voices are automatically placed in this choir.

Course Description: The choir of Tenor and Bass voices rehearses and performs four concerts locally each school year. Fundamentals of good singing, musical literacy, and group dynamics are stressed. Each student will receive a private lesson every week of the school year starting the 2nd quarter.

Chamber Singers

Course #:	MUS210A
Grade Level:	10-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	9 th grade choir OR
-	Instructor approval

<u>Considerations</u>: All registrants will complete a vocal audition and be placed in the appropriate ensemble by the instructors.

<u>Course Description</u>: Emphasis will be on the preparation of choral works for smaller groups, i.e. madrigals, early music, and contemporary music. Private lessons are recommended.

Linn-Mar Singers

Course #: Grade Level: Credits: Length: Format: Prerequisite: MUS210AA 10-12 10 2 Semesters Skinny 9th grade choir OR Instructor approval

<u>Considerations</u>: All registrants will complete a vocal audition and be placed in the appropriate ensemble by the instructors.

<u>Course Description:</u> Emphasis will be on preparation of advanced quality choral music by established and emerging composers for this genre. Soloist voice as well as strong choral singers will be the foundation of the group. Private lessons are recommended.

Concert Chorale

Course #:	MUS210B
Grade Level:	10-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	9 th grade choir OR
-	Instructor approval

<u>Considerations</u>: All registrants will complete a vocal audition and be placed in the appropriate ensemble by the instructors.

Course Description: Emphasis will be on the preparation of choral works for larger groups, i.e. music for double choir, major choral works with orchestra, music for operatic choruses, as well as standard acapella literature.

Bella Voce

Course #:	MUS210D
Grade Level:	10-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	9 th grade choir OR
	Instructor approva

<u>Considerations</u>: All registrants will complete a vocal audition and be placed in the appropriate ensemble by the instructors.

<u>Course Description:</u> Emphasis will be on preparation of advanced quality choral music by established and emerging composers for this genre. Soloist voice as well as strong choral singers will be the foundation of the group. Students will receive a weekly lesson in each nine week period. Private lessons are recommended.

Cantemus

Course #:	MUS210E
Grde Level:	10-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prequisite:	9 th grade choir OR
-	Instructor approval

<u>Considerations</u>: All registrants will complete a vocal audition and be placed in the appropriate ensemble by the instructors.

<u>Course Description:</u> Emphasis will be on preparation of advanced quality choral music by established and emerging composers for this genre. Soloist voice as well as strong choral singers will be the foundation of the group. Private lessons are recommended.

Concert Orchestra (Red)

Course #:	MUS230-1
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

Fees: \$45.00 rental instrument fee.

<u>**Considerations:**</u> Entry-level ensemble no audition required. Cellos and Basses are provided for daily rehearsal only. Students must provide their own instrument for home use.

<u>Course Description:</u> Emphasis is on the preparation and performance of high school level quality music literature for the string instruments. Lessons are offered during a six-day cycle and scheduled based on schedule availability. Private lessons are recommended.

Philharmonic Orchestra

Course #:	MUS290
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

Fees: \$45.00 rental instrument fee.

Considerations: All students must audition for the director to be enrolled in this ensemble. Specific audition materials are required for the audition and can be acquired from the director.

<u>Course Description:</u> Emphasis is on the preparation and performance of high school level quality music with some literature for string instruments. Lessons are offered during a six-day cycle and scheduled based on schedule availability. Private lessons are recommended.

Concert Orchestra (Black)

Course #:	MUS230-2
Grade Level:	9-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

Fees: \$45.00 rental instrument fee.

<u>Considerations</u>: Entry-level ensemble no audition required. Cellos and Basses are provided for daily rehearsal only. Students must provide their own instrument for home use.

<u>Course Description:</u> Emphasis is on the preparation and performance of high school level quality music literature for the string instruments. Lessons are offered during a six-day cycle and scheduled based on schedule availability. Private lessons are recommended.

Symphony Strings

Course #:	MUS240
Grade Level:	10-12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	approval

Fees: \$45.00 rental instrument fee.

Considerations: All students must audition for the director to be enrolled in this ensemble. Specific audition materials are required for the audition and can be acquired from the director.

<u>Course Description:</u> Emphasis is on the preparation and performance of college/university/professional level quality music literature for string instruments. Students also participate along with the wind, brass, and percussion to form the Full-Symphony Orchestra. Lessons are offered during a six-day cycle and are scheduled based on schedule availability. Private lessons are recommended.

Marching Band

Course #: Grade Level: Credits: Length: Format: Prerequisite:

MUS280 10-12 (9th by audition) 2.5 1 Quarter Early-Bird (7:15-8:00) none

Course Description: Meets daily during 1st quarter and is recommended for all grade 10-12 band members. The color guard is open to both band and non-band members with dance experience, or students who have the desire to perform. Auditions for the color guard and incoming 9th graders will be during the 2nd semester of the previous school year. The Marching Lions perform at the Linn-Mar Homecoming parade, all home football games, 4-5 contests, the Metro Marching Band Classic, and the Band Extravaganza.

Advanced Placement Music Theory

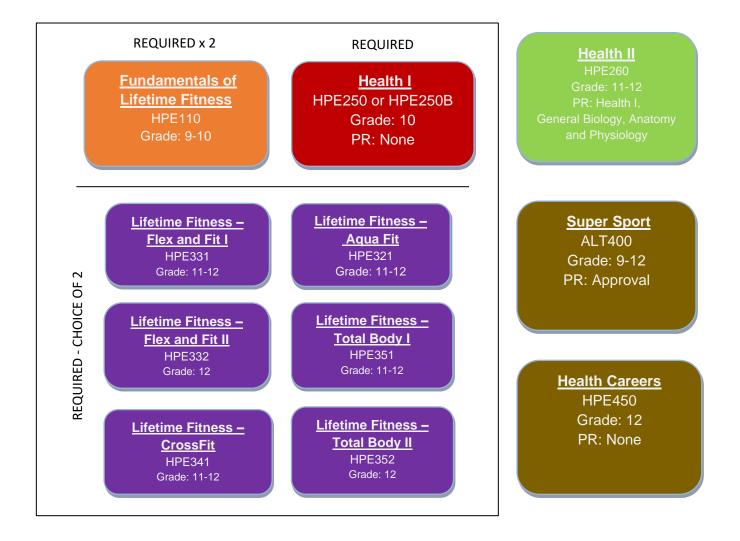
Course #:	MUS500	
Grade Level:	10-12	• •
Credits:	10	
Length:	2 Semesters	
Format:	Skinny	
Prerequisite:	Music Fundamer	tals or
-	Instructor approv	al

<u>Considerations</u>: Students may take the Music Theory AP exam in May. This course is strongly recommended for students considering studying music at the college/university level.

Course Description: This college-level class is progressive with each unit building on the previous. Major areas of study include the basic materials of music, time classification, notation, intervals, scales, time signatures, structure of tonality, triads, phrase structure and harmonization, seventh chords, musical style, exploration of arranging, composing, sight-singing, melodic and harmonic dictation.

MUSIC FUNDAMENTALS HIGHLY RECOMMENDED (See p. 125)

Linn-Mar Fitness/Health



Graduation Requirements

- 20 Credits of Fitness/Health
- Must include <u>Health I</u> and CPR
- Must include 5 credits of <u>Fundamentals of Lifetime Fitness</u> each year for grades 9 and 10, and a minimum of 2.5 credits of <u>Lifetime Fitness</u> each year for grades 11 and 12.

Fitness/Health

PR=Prerequisite Requirement

Physical education is required for every student in Iowa (Department of Education regulations, chapter 12). The focus of the Fitness Program at Linn-Mar High School is activity in the core component areas of cardiovascular fitness, strength training, endurance fitness, flexibility, competitive fitness activities and CPR/Water Safety Skills. All students are required to demonstrate an acceptable level of effort during activities while working towards a goal in each component area and complete district-approved fitness assessments each quarter. Students must take one Fitness course each school year and Health I to meet the state-required guidelines. Students may not enroll in the same Lifetime Fitness course (grades 11 and 12) in consecutive years.

<u>Health I</u>

Course #: Grade Level: Credits: Length: Format: Prereguisite:



<u>Considerations</u>: This course is **required** for graduation.

10

1 Quarter Block

None

5

Course Description: This course is designed to lead students to healthy lifestyle choices through use of decision making processes. Students are encouraged to assess their attitudes and behavior patterns and to understand the impact their lifestyle choices have on their communities and on their own well-being. Topics covered include: fitness and wellness, CPR/choking/AED for infant, child and adult; nutrition; eating disorders; sexual education; substance abuse; STDs; HIV/AIDS; cancer; infectious and non-infectious diseases.

Health II

Course #:	HPE260
Grade Level:	11-12
Credits:	10
Length:	1 Semester
Format:	Block
Prerequisite:	General Biology, Anatomy
	& Physiology, and Health 1

Considerations: None

<u>Course Description</u>: This is an in-depth course for students interested in the health related field. This broad spectrum includes but is not limited to: nutrition, sports medicine, sports management, exercise science, sports psychology, and mental/emotional health.

Super Sport

A
9
5
1
E
A

ALT400 9-12 5 1 Quarter Block Approval

<u>Considerations</u>: Specific skills taught and assessed are determined by a student's individualized education plan. Must have administrative approval to enroll.

Course Description: This adaptive physical education course focuses on individual and team activities to promote an active and healthy lifestyle. This course will adapt the activities to meet the physical needs of all students.

Fundamentals of Lifetime Fitness

Course #:	HPE110
Grade Level:	9-10
Credits:	5 (Each Year)
Length:	1 Quarter
Format:	Block
Prerequisite:	None
Grading:	Credit/No Credit

<u>Considerations</u>: This course is **required** for both freshmen and sophomores. This course is **required** for graduation.

Course Description: The class emphasis includes; enhancing personal fitness through Activity Labs and Group Games designed to improve Aerobic Capacity, Core Endurance, Muscular Fitness and overall Flexibility. The Student will demonstrate a beginning ability to use Goal-Setting Skills to aid in enhancing personal fitness. The Student will be encouraged to achieve an improved level of fitness while demonstrating beginning knowledge of fitness concepts and principles. The Student will complete and reflect on district-approved fitness assessments for completion of the class.

Lifetime Fitness - Aqua Fit

Course #:	HPE321
Grade Level:	11-12
Credits:	2.5
Length:	1 Quarter
Format:	Skinny
Prerequisite:	Fundamentals of
	Lifetime Fitness or
	Permission
Grading:	Credit/No credit

<u>Considerations</u>: A different Lifetime Fitness course is **required** for the Junior and Senior years.

Course Description: This section explores the unique buoyancy, resistance and movement of water to improve overall fitness. The Student will design and implement an Individualized Aquatic Fitness Plan. The class emphasis includes: enhancing fitness through Activity Labs designed to improve Aerobic Capacity, Core Endurance, Muscular Fitness and overall Flexibility. The Student will demonstrate the ability to use Goal-Setting Skills to aid in enhancing personal fitness, and complete a Life Skills Unit. The Student will be challenged to achieve an improved level of fitness while demonstrating knowledge of fitness concepts and principles. The Student will complete and reflect on district-approved fitness assessments for completion of the class.

Lifetime	Fitness	- Flex	and	Fit I
0	-			

Course #:	HPE331
Grade Level:	11-12
Credits:	2.5
Length:	1 Quarter
Format:	Skinny
Prerequisite:	Fundamentals of
	Lifetime Fitness or
	Permission
Grading:	Credit/No credit

<u>Considerations:</u> A different Lifetime Fitness course is **required** for the Junior and Senior years.

Course Description: This section is designed for the developing fitness Student and will provide opportunities for the Student to improve their personal fitness and concept knowledge. This section will utilize Group Activity Labs to support functional fitness improvement. The Student will explore ways to design, and adjust a fitness plan tailored to meet their goals. The Student will demonstrate the ability to use Goal-Setting Skills to aid in enhancing personal fitness, and complete a Life Skills Unit. The Student will be encouraged to achieve an improved level of fitness while demonstrating knowledge of fitness concepts and principles. The Student will complete and reflect on district-approved fitness assessments for completion of the class.

Lifetime Fitness - Flex and Fit II

Course #:	HPE332
Grade Level:	12
Credits:	2.5
Length:	1 Quarter
Format:	Skinny
Prerequisite:	Lifetime Fitness – Flex and
	Fit I or Permission
Grading:	Credit/No credit

<u>Considerations</u>: A different Lifetime Fitness course is **required** for the Senior year.

Course Description: This section is designed to provide advanced opportunities for the Student to improve their personal fitness and concept knowledge. This section will utilize Group Activity Labs to support the functional fitness improvement. The Student will create and utilize a Personal Fitness Portfolio to track and reflect on Activity Lab results. The Student will demonstrate the ability to use Goal-Setting Skills to aid in enhancing personal fitness, and complete a Life Skills Unit. The Student will be challenged to achieve an improved level of fitness while demonstrating advanced knowledge of fitness concepts and principles. The Student will complete and reflect on district-approved fitness assessments for completion of the class.

Lifetime Fitness - CrossFit

o "	
Course #:	HPE341
Grade Level:	11-12
Credits:	2.5
Length:	1 Quarter
Format:	Skinny
Prerequisite:	Fundamentals of
	Lifetime Fitness or
	Permission
Grading:	Credit/No credit

<u>Considerations:</u> A different Lifetime Fitness course is **required** for the Junior and Senior years.

Course Description: This section will utilize Group Activity Labs to support fitness improvement. The Student will explore ways to design and adjust a CrossFit Fitness Plan tailored to meet their goals. The class emphasis includes; enhancing personal fitness through Activity Labs designed to improve Aerobic Capacity, Core Endurance, Muscular Fitness and overall Flexibility. The Student will demonstrate the ability to use Goal-Setting Skills to aid in enhancing personal fitness and complete a Life Skills Unit. The Student will be challenged to achieve an improved level of fitness while demonstrating an advanced knowledge of fitness concepts and principles. The Student will complete and reflect on district-approved fitness assessments for completion of the class.

Lifetime Fitness - Total Body I

Course #:	HPE351
Grade Level:	11-12
Credits:	2.5
Length:	1 Quarter
Format:	Skinny
Prerequisite:	Fundamentals of
	Lifetime Fitness or
	Permission
Grading:	Credit/No credit

<u>**Considerations:**</u> A different Lifetime Fitness course is **required** for the Junior and Senior years.

Course Description: This section will focus on Introductory Strength Training concepts, skills and Activity Labs. The Student will explore ways to design a Total Body Strength Program. The Student will demonstrate the ability to use Goal-Setting Skills to aid in enhancing personal fitness, and complete a Life Skills Unit. The Student will be encouraged to achieve an improved level of Muscular Fitness while demonstrating a beginning knowledge of concepts and principles. The Student will complete and reflect on districtapproved fitness assessments for completion of the class.

Lifetime Fitness -	Total Body II
Course #:	HPE352
Grade Level:	12
Credits:	2.5
Length:	1 Quarter
Format:	Skinny
Prerequisite:	Lifetime Fitness – Total
	Body I or Permission
Grading:	Credit/No credit

<u>Considerations:</u> A different Lifetime Fitness course is **required** for the Senior year.

Course Description: This section is designed to allow the advanced Student to apply learned Strength Training Principles and Techniques. The Student will be engaged in demonstrations/ discussions and evaluations of lift performances during Activity Labs. The goal will be to improve Muscular Fitness and further knowledge and understanding of Strength Training Theory and Practice. The Student will demonstrate the ability to use Goal-Setting Skills to aid in enhancing personal fitness, and complete a Life Skills Unit. The Student will be challenged to achieve an improved level of Muscular Fitness while demonstrating advanced knowledge of fitness concepts and principles. The Student will complete and reflect on districtapproved fitness assessments for completion of the class.

Health Careers

Course #:
Grade Level:
Credits:
Length:
Format:
Prerequisite:

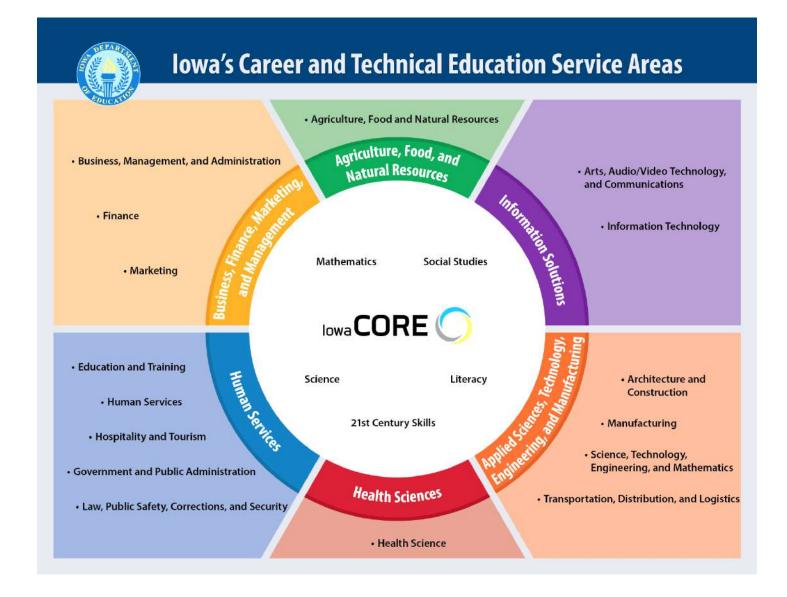
HPE450 12 Up to 21 credits 2 Semesters Block None k

<u>Considerations:</u> This course is a part of the **Career Edge Academy** and is taught at Linn Regional Center by Kirkwood staff.

Fee: Purchase of safety and consumable materials used in the course may be required.

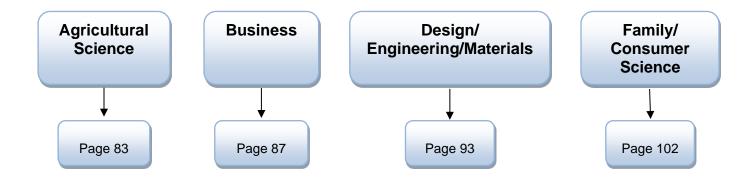
Course Description: The Health Sciences Academy includes hands-on patient care and meets for 85 minutes per day for the entire school year. Students will learn the basic expectations of a heath care professional through a combination of coursework, job shadows and assisting with patient care. When completed, students will be eligible to take the Licensed Practical Nurse certification test

Career and Technical Education Service Areas and Career Clusters



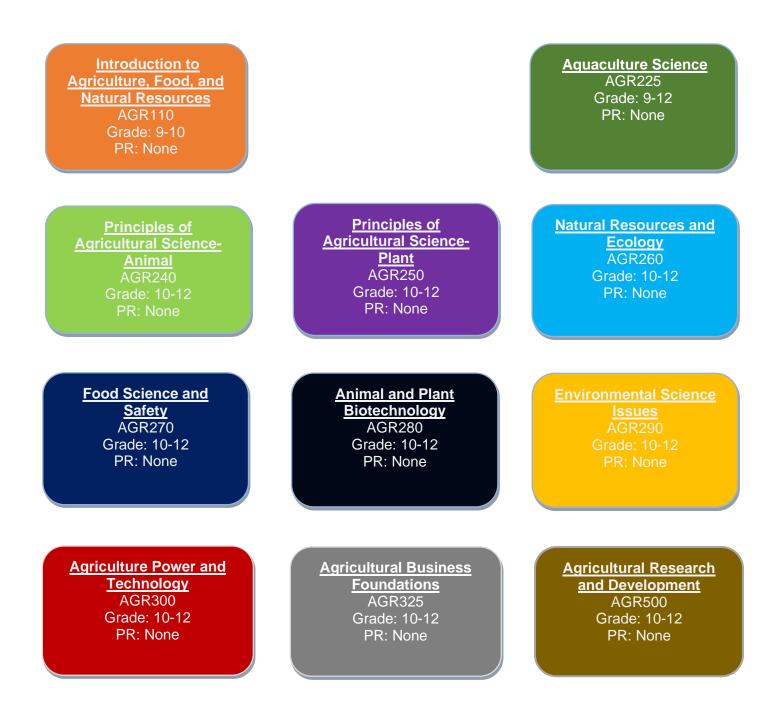
Linn-Mar Career and Technical Education Pathways begin on page 136.

Linn-Mar CTE/Exploratory



Agricultural Science

PR=Prerequisite Requirement



Introduction to Agriculture, Food, and Natural

<u>Resources</u>	
Course #:	A
Grade Level:	9
Credits:	1
Length:	2
Format:	В
Prerequisite:	N

AGR110 9-10 10 2 Quarters Block None

Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities.

Course Description:

Introduction to Agriculture, Food, and Natural Resources (AFNR) introduces students to the range of agricultural opportunities and the pathways of study they may pursue. Student experiences involve the study of natural resources, plants and animals, food science and agricultural mechanics.

Principles of Agricultural Science-

Animal Course #: Grade Level: Credits: Length: Format: Prerequisite:

AGR240 10-12 10 2 Quarters Block None

Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities.

Course Description:

Principles of Agricultural Science-Animal is a course engaging students in hands-on laboratories and activities to explore the world of animal agriculture. Student experiences involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection and marketing.

Aquaculture Science

AGR225
9-12
5
1 Quarter
Block
None

Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities.

Course Description:

Aquaculture Science introduces students to the world of animal and plant aquaculture. Students will acquire the skills needed to produce and harvest finfish, freshwater prawn and food plants while working in the department's aquaculture laboratory.

Principles of Agricultural Science-

Plant	
Course #:	AGR250
Grade Level:	10-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	None

Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities.

Course Description:

Principles of Agricultural Science-Plant is a course teaching students the form and function of plant systems. Student experiences include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting.

Natural Resources and Ecology

Course #: Grade Level: Credits: Length: 2 Quarters Format: Block Prerequisite: None

AGR260



Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities.

10-12

10

Course Description:

Natural Resources and Ecology is a course that provides students with a variety of experiences in the field of natural resources. Students explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies.

AGR280

2 Quarters

10-12

Block

None

10

Animal and Plant Biotechnology

Course #: Grade Level: Credit Hours: Lenath: Format: Prerequisite:

Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities.

Course Description:

Animal and Plant Biotechnology, a specialization course, provides students with experiences in industry appropriate applications of biotechnology related to plant and animal agriculture. Students are expected to become proficient at biotechnological skills involving micropipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction.

Food Science and Safety

Course #:	AGR270
Grade Level:	10-12
Credit:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	None

Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities.

Course Description:

Food Science and Safety is a course where students complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills.

Environmental Science Issues

Course #:	AGR290
Grade Level:	10-12
Credit Hours:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	None

Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities.

Course Description:

Environmental Science Issues is a course where students to research, analyze, and propose sustainable solutions to environmental issues. Students will investigate areas of environmental science including ecosystem management, sustainable agriculture, energy choices, and pollution.

Agricultural Power and Technolgy

Course #: Grade Level: Credit Hours: Length: Format: Prerequisite: AGR300 10-12 10 2 Quarters Block



Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities.

None

Course Description:

Agricultural Power and Technology is a course to expose students to mechanics, power, technology, and career options in the world of agriculture. Student experiences involve the study of sustainable energy, geographic information & global position systems, drone technology, machines, and structures as it relates to multiple areas of agriculture, including animals, plants, food science, biotechnology, and natural resource management.

Agricultural Business Foundations



Course #: Grade Level: Credit Hours: Length: Format: Prerequisite:

AGR325 10-12 2 Quarters Block, Blended None

Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities in a Blended format.

Course Description:

Agricultural Business Foundations introduces students to business management in agriculture. Student experiences involve the study of starting a business, financial documents required of a business, risk management, and writing a business plan.

Agricultural Research and Development

Course #:	
Grade Level:	
Credit Hours:	
Length:	
Format:	
Prerequisite:	

AGR500 10-12 10 2 Quarters Block None



Considerations:

Students will be introduced to SAE (supervised agricultural experience) and FFA opportunities.

Course Description:

Agricultural Research and Development is the capstone course designed to culminate students' experiences in agriculture, based on the pathway of study they pursued. Woven throughout the course are projects and problems based in practical applications and designed to develop and improve employability skills of students. Students will further enhance research, critical thinking, and teamwork skills as they expand on content knowledge from previous CASE courses. Students completing coursework for all four courses within a specific CASE Pathway are eligible to receive CASE program certification.

Business Accounting/Finance

PR=Prerequisite Requirement

Personal Finance BUS110 or BUS110E Grade: 9-12 PR: None

> Accounting BUS330 Grade: 10-12 PR: None

theROARstore BUS550 Grade: 11-12 PR: Any of 2 or more Business Courses

Advanced Accounting (AP Accounting) BUS430 Grade: 12 PR: Accounting

Career Immersion MOC BUS440 Grade: 12 PR: Application and Interview



Personal Finance

Course #: Grade Level: Credits: Length: Format: Prerequisite:

BUS110 or BUS110E 9-12 5 1 Quarter Block None

Considerations: This course meets financial literacy standards of the Iowa Core required for graduation.

Course Description: This course exposes students to areas of personal finance that they will likely encounter. The curriculum covers, among other topics: consumer awareness, manage personal finances to achieve financial goals, prepare bank account documents, maintain financial records, manage credit and debt (credit scores/identity theft), career preparation, insurance, saving and investing strategies. Information will be presented through projects, activities, guest speakers, virtual simulations and multimedia presentations.

Accounting

BUS330
10-12
10
2 Quarte
Block
None

Considerations: None

Course Description: Students will learn the fundamentals of double-entry accounting for personal and small business use. They will also learn about payroll, income tax and banking activities. Computers and various business forms will be used to help students develop a beginning understanding of the business world.

Quarters

Introduction to Business

Course #:	BUS120
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: None

Course Description: This course will give students 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.

Marketing

Course #:	BUS355
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: none

Course Description: Marketing is an allencompassing 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.

Business/Consumer Law

Course #:	BUS410
Grade Level:	11-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: None

<u>Course Desription:</u> This course will develop a general understanding of legal concepts for personal and business use. As students become familiar with these concepts, they will better understand the importance of the law in general, become familiar with relevant specific laws, and explore the applications of law both in business and in personal transactions. This will be achieved through field trips and/or guest speakers, and analyzing real cases.

MOC Internship

Career Immersion	
Course #:	BUS440
Grade Level:	12
Credits:	20
Length:	2 Semesters
Format:	Block
Prerequisite:	See Considerations

<u>Considerations:</u> Must also enroll in MOC Related; admitted when hired by an MOC teacher-approved employer; receive pay in addition to credit; must commit to one year.

<u>Course Description:</u> MOC will provide substantial, meaningful career-related work experience and engagement with structured evaluation/reflection with area business and industry. Student interns work a minimum of 15 hours per week. Work-based learning prepares students for college and career readiness by helping them make informed decisions about their life goals and learning specific career related skills.

Advanced Accounting

Course #:	BUS430
Grade Level:	11/12
Credits:	1
Length:	2 Quarters
Format:	Block
Prerequisite:	Accounting

<u>Considerations:</u> See prerequisite. HP 10b11. Financial calculator is required.

Course Description: This course uses an integrated approach to teach accounting, by learning how businesses plan for and evaluate their operating, financing and investing decisions and then how accounting systems gather and provide data to decision makers. The course covers all the objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Topics include: accounting information systems, time value of money, and accounting for merchandising firms, sales and receivables, fixed assets, debt, equity, statement of cash flows, financial ratios, cost-volume profit analysis and variance analysis.

MOC Related Career Immersion

Course #:	BUS450
Grade Level:	12
Credits:	10
Length:	2 Semesters
Format:	Skinny
Prerequisite:	See Considerations

Considerations: Must also enroll in MOC Internship; must commit to one year, must complete MOC application. Active and full participation of students in Future Business Leaders of America (FBLA) career and technical student organization at the local, state, and national levels including leadership and competitive skill events.

Course Description: Student will learn career exploration, preparation and application. Life and workplace skills: teamwork, professional development, customer relations, problem solving, diversity, time management, communication and information management. Consumer awareness, entrepreneurship, management, marketing, operations and labor market information. Financial Analysis: manage personal finances to achieve financial goals, prepare bank account documents, maintain financial records, prepare personal income tax forms, manage credit and debt (credit scores/identity theft), insurance, saving and investing strategies

Entrepreneurship

BUS460
11-12
5
1 Quarter
Block
None

Considerations: It is recommended that students enroll in one or more of the following courses prior to enrolling in Entrepreneurship; Accounting, Marketing, Business/Consumer Law, Personal Finance.

Course Description: Students will learn about starting and running their own business. A custom business plan will be developed after exploring topics such as innovation & creativity, business opportunities, marketing & marketing research, finance business operations, and monitoring success. BizInnovator Curriculum, developed by the University of Iowa, will be used and is tied into the National Entrepreneurship Standards, the Iowa Core Curriculum, and 21st Century Skills.

Economics

Course #: Grade Level: Credits: Length: Format: Prerequisite: SOC310 11-12

1 Quarter



Considerations: Students should be comfortable working with charts and tables.

Block

None

5

<u>Course Description:</u> This course will focus on economic concepts (scarcity, choice, incentives); supply, demand, and markets; microeconomics (production, productivity, competitive markets); and macroeconomics (the economy in the aggregate, inflation, unemployment).

AP Microeconomics

Course #:	BUS510
Grade Level:	11-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	Economics is
	recommended

<u>Considerations</u>: Students should be comfortable working with charts, tables, numbers, and equations. Students may take the AP Microeconomics exam in May.

Course Description: This course will focus on economic concepts (scarcity, choice, incentives); supply, demand, and markets; product markets (production, productivity, competitive markets); resource markets (demand for resources, wage rates); microeconomics of government; microeconomic issues and policies.

T<u>heROARstore</u>

Course #: Grade Level: Credits: Length: Format: Prerequisite: BUS550 11-12 5 1 Quarter Block Any of 2 or more Business courses

<u>Considerations</u>: This class has a work component built-in and may require students to work outside of normal instructional time.

Course Description: Students will be involved in the continued development and on-going operations of theROARstore. theROARstore is a student-run business, specializing in selling branded Linn-Mar merchandise. 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 the ROAR store's product mix, price the products accordingly, and promote them using social media, email marketing, 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.

Design & Engineering

PR=Prerequisite Requirement

Introduction to Engineering Design (IED) IND600 Grade: 9-12 PR: Algebra

Principles of Engineering (POE) IND610 Grade: 10 -12 PR: Algebra

<u>Civil Engineering and</u> <u>Architecture Design (CEA)</u> IND630 Grade: 10-12 PR: Algebra

Digital Electronics

IND620 Grade: 10-12 PR: Algebra

Aerospace Engineering IND670 Grade: 10-12 PR: Introduction into Engineering Design Computer Science Essentials (CSE) IND645 Grade: 9-12 PR: None

Computer Science Principles (CSP) IND650 Grade: 9-12 PR: Algebra

Advanced Placement Computer Science A (CSA) IND660 Grade: 10-12 PR: IND645 or IND650

Design/Engineering/Materials Construction/Carpentry

PR=Prerequisite Requirement

Woods: Materials & ProcessesIND240Grade: 10-12PR: NoneMaking (Woods II)IND250Grade: 10-12PR: Woods: M&PMesidential Construction IIND120Grade: 9-12PR: None

Residential Construction II IND125 Grade: 11-12 PR: Residential Construction I

<u>Capstone</u> <u>Building Trades</u> IND500 Grade: 12 PR: Application and Interview

Design/Engineering/Materials Manufacturing

PR=Prerequisite Requirement

Mechanical Drawing IND110 Grade: 9-12 PR: None Computer Integrated Manufacturing IND640 Grade: 9-12 PR: Algebra Metals: Materials and Processes IND310 Grade: 11-12 PR: None

Engineering Design and Development (EDD) IND680 Grade: 12 PR: Introduction to Eng. Design and one other PLTW Engineering course.

Mechanical Drawing

Course #:	IND110
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: None

<u>Course Description</u>: This course is designed to provide practical application of drafting knowledge practices through sketching and computer aided drafting (CAD). Students learn to use different types of drawing to describe and communicate ideas.

Residential Construction I

Course #:	IND120
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	none

Considerations: None

<u>Course Description</u>: This is an introductory course for students who wish to explore the construction industry and related careers. Major activities covered through construction of a wall section include: concrete framing, roofing, plumbing and electrical.

Residential Construction II

Course #:	IND125
Grade Level:	11-12 or approval
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Residential Const I

Considerations: None

<u>Course Description</u>: This is an advance course that provides students an opportunity to learn about materials, processes and careers found in Residential Construction. Activities include building and expanding on basics covered in Residential Construction I.

Woods: Materials and Processes

Course #:	IND240
Grade Level:	10-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	none

Considerations: Grade of 80% or higher for second guarter of Woods: Materials and Processes is required.

Course Description: This course is designed to teach skills necessary for basic woodworking applications. The course stresses student safety through a series of demonstrations and safety tests. Students will plan and construct introductory projects to gain skills necessary to complete a final project of their choosing. A lathe project is also required.

Cabinet Making

Course #:	IND250
Grade Level:	10-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	Woods: Materials and
	Processes

Considerations: Grade of 80% or higher for second quarter of Woods: Materials and Processes is required.

Fees: Students will be allotted materials for required projects. Additional fees may be charged if a student exceeds the allotted amount

Course Description: This course is designed to expand basic skills learned in Woods: Materials and Processes. A review of machine safety will precede project work. Students will design and draw plans for their project, calculate costs and devise a plan of procedure for completion of their project prior to starting work. Project work will be required to include at least one dovetailed drawer. rail, stile and panel piece.

Metals: Materials and Processes

Course #:	IND310
Grade Level:	11-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	none

Considerations: Fees the same as Cabinet Making

Course Description: This course will provide students the opportunity to explore the field of metal and develop skills in working with metal fabrication. The areas covered are welding, sheet metal, machining, and foundry.

Building Trades

Capstone Course

Course #:	IND500
Grade Level:	12
Credits:	20
Length:	2 Semesters
Format:	Block
Prerequisite:	none
Fees:	purchase of safety
	equipment such as
	glasses or ear
	protection

Considerations: Limit of seven Linn-Mar students. Students are selected by recommendation of Linn-Mar staff. Student must provide transportation to off-campus site.

Course Description: Linn-Mar and Marion High School students work two hours a day to build a full-sized house. The course includes all skills and tasks needed to complete this activity.

Linn-Mar Program of Studies

Intro to Engineering Design

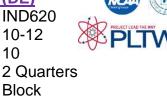
Course #: Grade Level: Credits: Length: Format: Co-requisite: IND600 9-12 10 2 Quarters Block Have taken or currently taking Algebra

<u>Considerations:</u> This course articulates credit with Kirkwood Community College.

Course Description: Students in this hands-on, project-based course will focus on creative design processes, communication and teamwork skills. 3D CAD software will be used to produce, analyze, and evaluate product modes. Sketching, geometric relationships, 3D modeling, production and marketing will be studied through the development of designs.

Digital Electronics (DE)

Course #:IND620Grade Level:10-12Credits:10Length:2 QuartFormat:BlockPrerequisite:Algebra



Considerations: It is recommended to have had Introduction to Engineering Design or Principles of Engineering before taking this class. This course articulates credit with Kirkwood Community College.

Course Description: This course is the study of electronic circuits that are used to process and control digital signals as opposed to analog signals that are varying. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. 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.

Principles of Engineering

Course #:	IND610	BOARD OF REGENTS
Grade Level:	10-12	STATE OF IOWA
Credits:	10	PITW
Length:	2 Quarte	ers
Format:	Block	
Prerequisite:	Algebra	

<u>Considerations</u>: See prerequisites. Students will earn credit for this course from Kirkwood Community College upon successful completion.

<u>Course Description:</u> Students will apply science and math to solve practical problems. Topics covered include machines, kinematics, thermodynamics, control systems and materials. This course will give students an idea of what some college engineering coursework is like.

Civil Engineering and Architectural Design (CEA)

Course #:	IND630
Grade Level:	10-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	Algebra

<u>Considerations:</u> This course articulates credit with Kirkwood Community College.

<u>Course Description:</u> Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. Students will use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects.

Computer Integrated Manufacturing (CIM)

Course #:	IND640	
Grade Level:	9-12	
Credits:	10	
Length:	2 Quarters	PLTW
Format:	Block	
Co-requisite: Algebra		

<u>Considerations</u>: This course articulates credit with Kirkwood Community College.

Course Description: How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? While students discover the answers to these questions, they are learning about the history of manufacturing, robotics and automation, manufacturing processes, computer modeling, manufacturing equipment, and flexible manufacturing systems.

Computer Science Essentials (CSE)

Course #:	IND645
Grade Level:	9-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	None

<u>Considerations</u>: Students with no prior computer science experience can take this as a first computer science course. Academically confident/motivated students or students with a bit of prior programming experience may skip CSE and sign up for Computer Science Principles (CSP).

<u>Course Description:</u> In this entry level computer science course, students will learn to program apps using a graphical, block-based programming language. After learning fundamentals of programming, student's transition to text-based programming using the Python language. Students will continue using Python as they learn to create web applications. Students will use a variety of tools and computational thinking concepts as they build confidence and gain experience in the field of computer science.

Computer Science Principles

(CSP) Course#: Grade Level: Credits: Length: Format: Corequisite: IND650 9-12 10 2 Quarters Block



Block Algebra or concurrent enrollment in Algebra

Considerations: Students who want a beginner level computer science experience should take Computer Science Essentials (CSE) as their first course. Academically motivated / confident students or students with a bit of prior programming experience may choose to skip CSE and register for CSP.

Course Description: Explore a variety of fields within computer science: Python programming, app development, visualization of data, image data manipulation, graphical user interfaces, cybersecurity, simulation, and creating webpages. This course aims to develop computational thinking, generate interest in career paths that utilize computing, and introduce a variety of professional tools that foster creativity and collaboration. CSP helps students develop programming experience, confidence and explore the workings of the Internet.

Advanced Placement Computer

Science A (CSA) Course #: Grade Level: Credits Length: Format: Corequisite:

IND660 10-12 10 2 Quarters Block Computer Science Essentials (CSE) or Computer Science Principles (CSP)

Considerations: Students need prior programming experience outside of school. Computer Science A is a very challenging course. This is a Project Lead The Way (PLTW) course. This course prepares students for the AP Computer Science A exam.

Course Description: CSA students will learn fundamentals of the Java programming language and continue on to object oriented programming. Students develop skills in solving computational problems, writing algorithms, testing code, and processing data.

Aerospace Engineering (AE)

Course #: Grade Level: Credits Length: Format: Prerequisite:



Block Introduction to Engineering Design or Principles of Engineering.

Considerations: It is recommended that students have prior experience with Autodesk Inventor.

IND670

2 Quarters

10-12

10

Course Description: The major focus of the Aerspace Engineering course is to expose students to the world of aeronautics, flight, and engineering. Students will employ engineering and scientific concepts in the solution of aerospace problems. Lessons will engage students in engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of spce science, principles of aeronautics, structures and materials, and systems engineering.

Engineering Design and Development

(EDD) Course #: Grade Level: Credits Length: Format: Prerequisite:

IND680 12 10 2 Quarters Block Introduction Design and



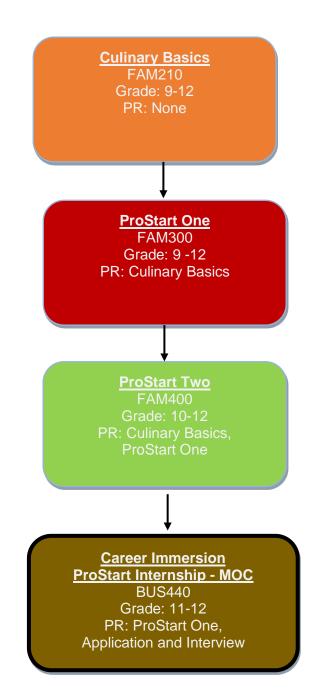
2 Quarters Block Introduction to Engineering Design and one other PLTW Engineering course.

Considerations: EDD is a culminating capstone course. In order to have a solid foundation for this course, students need successful completion of the prerequisites Introduction to Engineering Design and one of the following courses: Principles of Engineering, Digital Electronics, Aerospace Engineering, Civil Engineering and Architecture, Computer Integrated Manufacturing, Environmental Sustainability, or Computer Science Principles.

Course Description: Utilizing activity-projectproblem-based (APPB) teaching and learning pedagogy, students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solution. Finally, student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process.

Family/Consumer Sciences Culinary

PR=Prerequisite Requirement



Family/Consumer Sciences Child Development/Education

PR=Prerequisite Requirement

Foundations of Living FAM100 Grade: 9-12 PR: None

Human Growth and Development FAM440 Grade: 10-12 PR: None

KCC Child Growth and <u>Development</u> FAM425 Grade: 11-12 PR: KCC qualifying placement score

Exploring Teaching FAM450 Grade: 11-12 PR: KCC qualifying placement score and one Growth and Development course Behavior Management FAM460 Grade: 11-12 PR: KCC qualifying placement score and one Growth and Development course

<u>Career Immersion</u> <u>MOC</u> BUS450 Grade: 12 PR: Application and Interview

Family/Consumer Sciences Home

PR=Prerequisite Requirement

Foundations of Living FAM100 Grade: 9-12 PR: None

Fashion and Sewing / Creative Sewing FAM220 Grade: 10-12 PR: None

Interior Design FAM240 or FAM240B Grade: 9-12 PR: None

Advanced Sewing FAM250 Grade: 10-12 PR: Creative Sewing

Foundations of Living

FAM100
9-12
5
1 Quarter
Block
none

Considerations: none

Course Description: Students explore basic fundamentals of home and life management. Curriculum covers multiple focuses, including Child Development- infant through preschool, Home Design- living spaces and design principles, and Fashion and Sewing- Clothing choices and sewing skills.

Culinary Basics

Course #:	FAM210
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	none

Considerations: none

<u>Course Description:</u> This is an introductory foods course that develops skills and techniques related to the selection, storage, and preparation of basic foods.

Fashion and Sewing / Creative Sewing

FAM220
10-12
5
1 Quarter
Block
none

Considerations: none

Course Description: Students will learn to sew or increase sewing skills in this hands-on project based course. Various tools and equipment will be used to produce a variety of projects. Students will also examine their personal style, apply design principles to clothing and learn about careers in the fashion industry.

Interior Design

Course #:	FAM240 or FAM240B
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	none

Considerations: none

<u>Course Description:</u> This course investigates housing choices and the design of living areas. Students explore, apply, and evaluate the elements and principles of design, wall and floor treatments, furniture styles and arrangement, housing types available, floor plan design, landscaping, financial aspects related to housing, and related careers.

Advanced Sewing

	•
Course #:	FAM250
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Fashion & Sewing/
	Creative Sewing with
	grade of B or better

Considerations: This is an advanced level, project-based class for independent sewers.

Course Description: Students in this class will increase sewing machine skills by creating multiple projects with minimal instructor assistance. Also, students will explore other textile production methods such as embroidery, knitting, dyeing, and weaving.

ProStart One

Course #:	FAM300
Grade Level:	9 - 12
Credits:	10
Length:	1 Semester
Format:	Block
Prerequisite:	Culinary Basics
-	-

Considerations:

Kirkwood Credits upon completion of ProStart program

Course Description: Topics addressed in ProStart One include successful customer relations, food safety, workplace safety, kitchen basics, foodservice equipment, communication, workplace ethics, and careers in the hospitality and tourism industry. Food preparation labs will include the following foods: stocks, soups, sauces, fruits, vegetables, potatoes, and grains.

ProStart Two

Course #:	FAM400
Grade Level:	10 - 12
Credits	10
Length:	1 Semester
Format:	Block
Prerequisite:	Culinary Basics, ProStart
-	One, ProStart Internship
	(ongoing)

Considerations: Kirkwood credits earned upon completion of ProStart program

Course Description:

Topics include sustainability in the food service industry and global cuisine in America, Europe, the Mediterranean, the Middle East, and in Asia with an emphasis on nutrition and cost control. Food preparation labs will include the following: breakfast foods and sandwiches, salads, garnishing, meat, poultry, seafood, desserts, and baked goods.

Human Growth and Development

Course #:	FAM440
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	none

Considerations: This is a general comprehensive course of human development. This course combines the two previously taught courses of Child Development and Parenting. Relevant career paths include education, child care, nursing, counseling, therapy, social work, public health, and other service-related fields.

Course Description: This course explores the different stages of human life- Prenatal, Infancy, Childhood, Adolescence, and Adulthood. Developmental milestones and major life events of an individual will be examined. This course provides an opportunity to interact with children of various ages to learn about will be practiced.

Linn-Mar Program of Studies

KCC Child Growth and

Development Course #: Grade Level: Credits: Length: Format: Prerequisite:



11-12 5 1 Quarter Block KCC qualifying placement score

FAM425

Considerations: This is a concurrent course with Kirkwood Community College and is encouraged for those considering careers in education, social work, nursing, therapy, psychology, coaching etc. It is recommended to have taken Human Growth and Development as a foundation but is not required. This is the first course necessary to obtain the Para-Educator Generalist Certification. The second course is Exploring Teaching and the third course is Behavior Management-online.

Course Description: Students will earn credit from Kirkwood Community College upon successful completion of this course. This course will study the development of children thru adolescence age. Areas of study will examine interactions between child, family, school and society. Theories and evidence-based practices associated with understanding and supporting children will be covered. This course provides opportunities to observe in an elementary classroom.

KCC Exploring Teaching

Course #:	FAM450
Grade Level:	11-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Human G
	Developr
	Child Gro

11-12 5 1 Quarter Block Human Growth and Development or KCC Child Growth and Development

Considerations: This is a concurrent course with Kirkwood Community College and is recommended for those considering careers in education. This is the <u>second</u> course necessary to obtain the Para-Educator Generalist Certification. The third course is Behavior Management.

Course Description: This class will promote understanding of the teaching and learning process. Students will be given an introduction to the activities and concerns of beginning teachers. The focus is on developing the skills, knowledge and attitude that will be needed to teach in elementary and secondary classrooms. Microteachings are utilized to simulate actual teaching situations and common teaching problems are discussed through case studies.

Linn-Mar Program of Studies

KCC Behavior Management

Course #: Grade Level: Credits: Length: Format: Prerequisite: And the second s

11-12 5 1 Quarter Block Human Growth and Development or KCC Child Growth and Development

Considerations: This is a concurrent course with Kirkwood Community College and is recommended for those considering careers in the education field or working with individuals with specific behavior needs. This course is necessary to obtain the Para-Educator Generalist Certification.

Course Description: This course develops skills of observation and management of the behavior of others individually and in groups. Students will gain an understanding about the purpose of behavior and will develop strategies necessary to successfully correct and manage behavior. This course meets part of the requirement for the Para-Educator Generalist Certification.

ProStart Internship

Course #:	BUS440
Grade Level:	10 - 12
Credits:	20
Length:	1 Semester
Format:	Block
Prerequisite:	Culinary Basics and
	ProStart One

Considerations: Kirkwood credits earned upon completion of ProStart program

Course Description: Should be taken between ProStart One and ProStart Two. Must be taken if interested in Kirkwood Community College credit. While classroom experience is necessary to learn the foundational culinary and management skills, nothing beats real-life experience gained by working in the industry. Students must have a minimum of 400 hours of paid work experience. They must complete 52 of 75 competencies from the Student Work Experience Checklist, to be determined by employers.

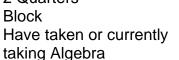


These courses are also found in the Science and DEM Department courses offered.

Intro to Engineering Design

Course #: Grade Level: Credits: Length: Format: Co-requisite:

IND600 9-12 10 2 Quarters Block



Considerations: This course articulates credit with Kirkwood Community College.

Course Description: Students in this hands-on, project-based course will focus on creative design processes, communication and teamwork skills. 3D CAD software will be used to produce, analyze, and evaluate product modes. Sketching, geometric relationships, 3D modeling, production and marketing will be studied through the development of designs.

Principles of Engineering

Course #: Grade Level: Credits: Length: Format: Prerequisite:



Considerations: See prerequisites. Students will earn credit for this course from Kirkwood Community College upon successful completion.

IND610

10-12

Block

Algebra

10

Course Description: Students will apply science and math to solve practical problems. Topics covered include machines, kinematics, thermodynamics, control systems and materials. This course will give students an idea of what some college engineering coursework is like.

Digital Electronics (DE)

Course #:	IND620
Grade Level:	10-12
Credits:	10
Length:	2 Quarte
Format:	Block
Prerequisite:	Algebra



Considerations: It is recommended to have had Introduction to Engineering Design or Principles of Engineering before taking this class. This course articulates credit with Kirkwood Community College

Course Description: This course studies electronic circuits that are used to process and control digital signals as opposed to analog signals that are varying. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. 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.

<u>Civil Engineering and</u> Architectural Design (CEA)

Architectural Design (CEA)Course #:IND630Grade Level:10-12Credits:10Length:2 QuartersFormat:BlockPrerequisite:Algebra



<u>**Considerations:**</u> This course articulates credit with Kirkwood Community College.

Course Description: Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. Students will use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects.

Computer Integrated Manufacturing (CIM)

Course #:	IND640	C
Grade Level:	9-12	8
Credits:	10	
Length:	2 Quarters	
Format:	Block	
Co-requisite:	Algebra	

<u>Considerations</u>: This course articulates credit with Kirkwood Community College.

Course Description: How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? While students discover the answers to these questions, they are learning about the history of manufacturing, robotics and automation, manufacturing processes, computer modeling, manufacturing equipment, and flexible manufacturing systems.

Computer Science Essentials (CSE)

10

Block

None

IND645

2 Quarters

Course #: Grade Level: 9-12 Credits: Length: Format: Prerequisite:



<u>Considerations</u>: Students with no prior computer science experience can take this as a first computer science course. Academically confident/motivated students or students with a bit of prior programming experience may skip CSE and sign up for Computer Science Principles (CSP).

Course Description: In this entry level computer science course, students will learn to program apps using a graphical, block-based programming language. After learning fundamentals of programming, student's transition to text-based programming using the Python language. Students will continue using Python as they learn to create web applications. Students will use a variety of tools and computational thinking concepts as they build confidence and gain experience in the field of computer science.

Computer Science Principles

(CSP) Course#: Grade Level: Credits: Length: Format: Corequisite:

IND650 9-12 10 2 Quarters Block Algebra or concurrent enrollment in Algebra



<u>Considerations</u>: Students who want a beginner level computer science experience should take Computer Science Essentials (CSE) as their first course. Academically motivated / confident students or students with a bit of prior programming experience may choose to skip CSE and register for CSP.

Course Description: Explore a variety of fields within computer science: Python programming, app development, visualization of data, image data manipulation, graphical user interfaces, cybersecurity, simulation, and creating webpages. This course aims to develop computational thinking, generate interest in career paths that utilize computing, and introduce a variety of professional tools that foster creativity and collaboration. CSP helps students develop programming experience, confidence and explore the workings of the Internet.

Advanced Placement Computer

Science A (CSA) Course #: Grade Level: Credits Length: Format:

Corequisite:

10 2 Quarters Block **Computer Science Essentials** (CSE) or Computer Science Principles (CSP)

Considerations: Students need prior programming experience outside of school. Computer Science A is a very challenging course. This is a Project Lead The Way (PLTW) course. This course prepares students for the AP Computer Science A exam.

IND660

10-12

Course Description: CSA students will learn fundamentals of the Java programming language and continue on to object oriented programming. Students develop skills in solving computational problems, writing algorithms, testing code, and processing data.

10-12

10

Aerospace Engineering (AE)

Course #: Grade Level: Credits Length: Format: Prerequisite:



Block Introduction to Engineering Design or Principles of Engineering

Considerations: It is recommended that students have prior experience with Autodesk Inventor.

Course Description: The major focus of the Aerspace Engineering course is to expose students to the world of aeronautics, flight, and engineering. Students will employ engineering and scientific concepts in the solution of aerospace problems. Lessons will engage students in engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of spce science, principles of aeronautics, structures and materials, and systems engineering.

Engineering Design and Development

(EDD) Course #: Grade Level: Credits Length: Format: Prerequisite:

IND680 12 10 2 Quarters Block



Introduction to Engineering Design and one other PLTW Engineering course.

Considerations: EDD is a culminating capstone course. In order to have a solid foundation for this course, students need successful completion of the prerequisites Introduction to Engineering Design and one of the following courses: Principles of Engineering, Digital Electronics, Aerospace Engineering, Civil Engineering and Architecture, Computer Integrated Manufacturing, Environmental Sustainability, or Computer Science Principles.

Course Description: Utilizing activity-projectproblem-based (APPB) teaching and learning pedagogy, students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solution. Finally, student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem-solving abilities, and their understanding of the design process.

Environmental Sustainability

(Previously was Biotechnical Engineering) Course #: Grade Level: Credits: Length: Format: Prerequisite:



Considerations: See prerequisites. This is course in the Project Lead the Way engineering sequence. Students will earn credit for this course from Kirkwood Community College upon successful completion.

SCI620

2 Quarters

Algebra AND **General Biology**

10-12

Block

10

Course Description: Students will investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply issues, and renewable energy. Applying their knowledge through hands-on activities and simulations, students' research and design potential solutions to these true-to-life challenges.

Linn-Mar Digital Learning

Blended Learning

A variety of courses at Linn-Mar High School are offered in a Blended Learning format. Blended Learning courses currently include:

Advanced English III Advanced US History 9 Agricultural Business Foundations Algebra 2A Anatomy & Physiology Applied Chemistry and Physics Astronomy Contemporary Literature Creative Writing Digital Photography Earth Science English III French I, II, III, and IV General Biology Health I Interior Design Introductory Psychology Physics I PLTW Computer Science A (CSA) PLTW Computer Science Principles (CSP) Principles of Ag Science - Animal Sociology Spanish III and IV Speech US History 9 Work Experience - Yearbook World History

Students involved in Blended Learning will interact with course content through a combination of face-to-face and digital instructional methods. Students participating in Blended coursework are exposed to both face-to-face instruction and online learning on a schedule that flexes day-to-day and week-to-week, depending on individual student and course needs.

Online Learning

Linn-Mar Online Learning courses will be delivered and conducted online through Schoology. Students will not attend a class during a set time. Students will work online while teachers assign work and check digitally. Students will engage with the course material, discussions, and activities within a week (or module); however, will complete assignments, activities, and contribute to the discussions. Course standards and expectations will be similar if not the same as a Traditional and Blended Learning courses.

Online Learning courses for 2021 – 2022 include Personal Finance, Government, Composition I, and Composition II. Additional Online offerings may be communicated after initial publication of the Program of Studies.

Virtual Learning

Virtual Learning courses will mirror online learning in many ways. At Linn-Mar, the distinction between online learning and virtual learning is that virtual learning will require virtual attendance (for digital group interaction) at set times throughout the term, while online learning will not.

Government is offered as a Virtual Learning course for 2021 – 2022. Additional Virtual offerings may be communicated after initial publication of the Program of Studies.

Credit Recovery

APEX As more opportunities become available online for academic preparation, LMHS is developing a framework for such options as deemed appropriate. Currently, APEX offerings are available, primarily for Credit Recovery, through the Academic Assistance Center.

Linn-Mar Extension Opportunities

In an effort to provide students the opportunity to extend interest in a particular area, Linn-Mar High School is developing a framework to allow for these opportunities. While a Linn-Mar Projects component is under development, current extension offerings are provided through courses in the Project Lead the Way (PLTW) program and for those students identified to be a part of the Linn-Mar Talented and Gifted program.

Project Lead the Way (PLTW) is a national program with courses designed to prepare students for a career in engineering or engineering technology. Emphasis is placed on applied learning through a challenging and engaging "hands-on" project-based approach. A national standards-based curriculum is followed. Courses for Project Lead the Way offered at Linn-Mar High School include:

- Introduction to Engineering Design (IED)
- Digital Electronics (DE)
- Principles of Engineering (PoE)
- Environmental Sustainability (ES)
- Computer Integrated Manufacturing (CIM)
- Civil Engineering and Architectural Design (CEA)
- Computer Science Essentials (CSE)
- Computer Science Principles (CSP)
- Computer Science A (CSA)
- Aerospace Engineering (AE)
- Engineering Design and Development (EDD)

Talented and Gifted

This program is for students identified according to established district guidelines. The program begins in 9th grade with a required quarter-long career awareness and college planning seminar designed especially for TAG students. 9th grade students also have the option of choosing to take Advanced US History 9 and Advanced English I; both of which are open to all students, but stress academic rigor and presenting the student with challenge.

10th, 11th, and 12th grade students may elect to take an independent study course, allowing them to design their own in-depth study. Advanced Placement courses are also available to all students in these upper grades.

Freshman Seminar TAG 1

Course #:	TAG410
Grade Level:	9 🎊
Credits:	2.5
Length:	1 Quarter
Format:	Skinny
Prerequisite:	Instructor Approval

Considerations: This course is for students identified by established district guidelines.

Course Description: Students explore how their skills, abilities, and specific personality traits relate to educational and career options. They will also study the college admissions process, scholarship application process, and how to find a college that best suits their goals. Students also participate in a community service project.

Independent Study TAG 5

Course #:	TAG510	
Grade Level:	10-12	
Credits:	5	
Length:	1 Semester	
Prerequisite:	Instructor Appr	oval

Considerations: This course is for students identified by established district guidelines.

<u>Course Description:</u> This course is designed for students with demonstrated research skills who have a commitment to independent learning. Working with mentors from the community, students will plan and complete independent indepth projects.

have a commitment to independent learning. Working with mentors from the community, students will plan and complete independent indepth projects.

AP Independent Study

Course #:	TAG620
Grade Level:	10-12
Credits:	5-10
Length:	1-2 Semesters
Prerequisite:	Instructor Approval

<u>Considerations</u>: This course is for students identified by established district guidelines.

<u>Course Description</u>: This course is offered through the Iowa Online AP Academy. You need at least one skinny in your schedule. Limited enrollment.

Linn-Mar Program of Studies



Innovative Project-Based Learning

Those who desire to explore personal interests through hands-on experience are excellent candidates for Venture Academics. At Venture, application leads to learning.

Venture Academics is a project-based learning program built to apply foundational knowledge to student-designed ventures. Students begin by choosing a subject area of interest with a defined set of LMHS course associations and follow with learning through standards-referenced, project-based experiences.

Project-based teaching is provided in strands. Strands are designed as immersive experiences in chosen content-areas with defined content-associated coursework. Most strands include English elective graduation credit through embedded reading, writing, or communication.

Each strand will include complementary coursework totaling 15 content-area credits and 5 projectwork credits. Projects will often, though not always, be supported by community advisors, mentors, or partners.

Strands are offered in the following subject areas;

- Advanced Business
- Behavioral Science
- Business Foundations
- Digital Design and Communication
- Earth Science

- Environmental Science
- Government and Law
- Health
- Life Science
- Writing

Students will attend to strand learning in semester-long, half-day blocks of time and work to meet content objectives through projects similar to the examples below. (Listing provides a sample of possibilities; projects will vary by project team.)

Advanced Business – Design, build, license, and market an innovative new product that solves a problem.

Advanced Business – Research successful entrepreneurs. Apply identified skills and processes entrepreneurs use to create success to a personal business venture.

Behavioral Science – Work with local government and non-profit organizations to explore the social constructs/ institutions that dominate American culture.

Behavioral Science – Journal and reflect on terms/ideas of personality development, individual roles within society, and social norms, and publish findings.

Business Foundations – Work with a local business to create and execute a marketing plan to increase sales of existing products.

Business Foundations – Collaborate with local businesses. Review business plans and assist with refinement and execution of modifications.

Earth Science – Create or improve a process for energy capture and conversion for carbon-free power.

Earth Science – Research the Iowa Department of Agriculture's Mines and Minerals Bureau to learn about abandoned mined (coal) land reclamation in the State. Educate the public about restoration of abandoned mining sites.

Environmental Science – Monitor the level of contaminants in area waterways. Develop and implement methods to decrease pollutants through the natural filtering of run-off.

Environmental Science - Design, build, and test a reinvention or innovation for a material that is typically discarded at the end of its use.

Government and Law - Analyze current methods of political polling, hypothesize improvements, recreate, and pilot a new system to improve polling accuracy.

Government and Law – Prepare for and participate in a mock Constitutional Convention to debate and clarify our Bill of Rights.

Digital Design and Communication – Digital Design and Communication - Acquire advanced understanding and application of industry standard design tools through project-based learning. Utilize conventional design aesthetics and processes to visually engage and communicate. Experience relevant job roles and responsibilities including idea conceptualization, design, communication, collaboration, and project implementation.

Health – Collect information, analyze, and form factual generalizations about local diet. Use the information to educate residents about community dietary health.

Health – Create and deliver a public service campaign on the dangers of specific substance use and abuse.

Life Science – Prepare and perform a study on a local ecosystem. Collect and present data on changes to the ecosystem over time.

Life Science – Research examples of natural selection and adaptation. Prepare a presentation describing the influence of genetic variation and survival on the population of species.

Writing - Influence a cause about which you are passionate through serial publication of persuasive writing.

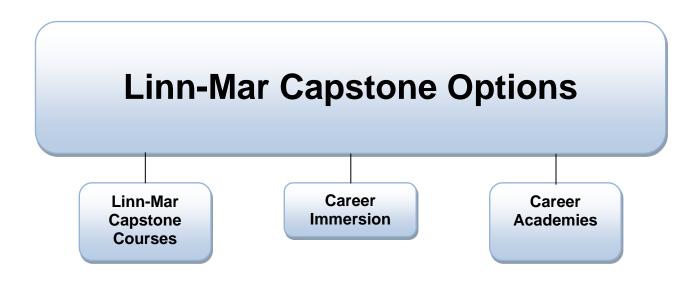
Writing – Work with a local business or government agency to provide research on a topic of mutual interest. Write formally and informally to communicate findings to business and community.

Venture learning projects will emphasize the Iowa Core Universal Constructs of Critical Thinking, Collaboration, Complex Communication, Flexibility and Adaptability, Creativity, and Productivity and Accountability

Linn-Mar Program of Studies

Strands Offered:

Advanced Business	BUS410 Business/Consumer Law - 5 credits BUS460 Entrepreneurship - 5 credits ENG390 Communications - 5 credits BUS702 Venture Advanced Business - 5 credits
Behavioral Science	SOC330 Sociology - 5 credits SOC340 Introductory Psychology - 5 credits ENG450 College Reading - 5 credits SOC702 Venture Behavioral Science - 5 credits
Business Foundations	BUS120 Introduction to Business – 5 credits BUS355 Marketing -5 credits ENG120 Rhetoric– 5 credits BUS701 Venture Business Foundations – 5 credits
Earth Science	SCI340 Earth Science – 10 credits ENG185 Intro to College Reading – 5 credits SCI701 Venture Earth Science – 5 credits
Environmental Science	SCI541 AP Environmental Science 1 – 5 credits SCI542 AP Environmental Science 2 – 10 credits SCI703 Venture Environmental Science – 5 credits
Government and Law	SOC320 Law and the Constitution - 5 credits SOC400 Government – 5 credits ENG420 College Writing – 5 credits SOC701 Venture Government and Law – 5 credits
Digital Design and Communication	ART400B Digital Photography - 5 credits ART410 Graphics 1 - 5 credits ART420 Graphics 2 - 5 credits ART701 V. Digital Design & Communication- 5 credits
Health	HPE250 Health 1 – 5 credits HPE260 Health 2 – 10 credits HPE701 Venture Health – 5 credits
Life Science	SCI210 General Biology – 10 credits ENG285 Intro to College Writing – 5 credits SCI702 Venture Life Science – 5 credits
Writing121	ENG410 Creative Writing – 5 credits ENG430 College Grammar – 5 credits ENG420 College Writing – 5 credits ENG701 Venture Writing



Linn-Mar Capstone Courses

A "capstone" experience is an in-school immersion into the actual work environment of a particular job/subject area. These application opportunities allow a student to be trained in the specific skills of a particular work environment, as well as to be provided with experience in the career area. The following Capstone courses are currently being offered or developed:

- Building Trades
- LM Store
- ProStart I & II
- LM Teaching and Development
- Engineering Design and Development (EDD)
- Capstone Project in Agriculture, Aquaculture, Food and Natural Resources (developing)

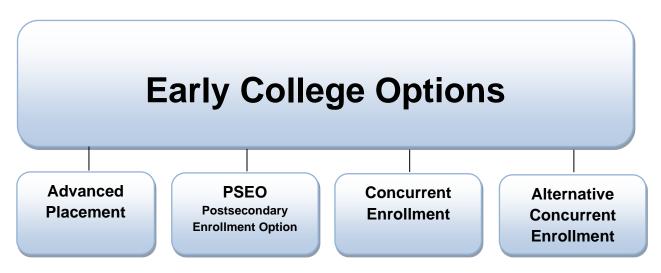
Career Immersion

Career Immersion opportunities include internships, job shadows, and other experiences on the actual job site. These opportunities are provided through the MOC program, a partnership with The Workplace Learning Connection, and other businesses and agencies. Please see a counselor for more information on these opportunities.

Career Academies

Career Academies are opportunities to explore high demand careers while earning both high school and college credit. Linn-Mar and other area high schools have teamed with Kirkwood Community College to create several courses that will help students explore careers, develop new skills, and gain insights into today's workplace. Academics include:

- Advanced Manufacturing with Robotics and Welding
- Architecture, Construction & Engineering (ACE)
- Automotive Technology and Collision Repair
- Computer Programming & Software Development (Coding)
- Dental
- Emergency Medical Technician (EMT)
- Energy, Electrical and Automation
- Network & Cyber Security
- Patient Care
- Pharmacy Technician
- Pre-Professional Health Careers
- Transportation



Advanced Placement

Linn-Mar High School offers Advanced Placement (AP) courses in Art History, Calculus (AB and BC), Statistics, Biology, Chemistry, Environmental Science, Physics (1 & 2), Computer Science A, English Literature and Composition, French, Microeconomics, Music Theory, Comparative Government, World History, Psychology, U.S. Government, and U.S. History. A minimal number of AP courses are available through the Iowa AP Online Academy. Students who complete these courses can take a standard AP exam. Many colleges and universities accept AP courses for college credit, depending upon individual AP exam scores. More information is available in the Counseling Office or the TAG Office.

AP course are weighted for grade point calculation purposes as follows:

A+; A (5.0); A- (4.67); B+ (4.33); B (4.0); B- (3.67); C+ (3.33); C (3.0); C- (2.67); D+ (2.33); D (2.0); D- (1.67)

Post-Secondary Opportunities (PSEO)

Credit may be awarded by a college or university upon successful completion of course requirements. Any college credit determination is made by an individual college.

Students may enroll in college courses under the following provisions:

- The PSEO is intended for 11th and 12th grade students as part of their four-year plan.
- A course chosen under this option must not be a comparable course to one offered in the local high school curriculum.
- The chosen course may not replace graduation requirements.
- The school district will pay up to \$250 for related tuition and related course fees. Students are responsible for textbook fees.
- A student must complete the course with a passing grade in order for the school district to pay for the course.
- Students must maintain the minimum high school course load.

Concurrent and Alternative Concurrent Enrollment Courses

Concurrent and Alternative Concurrent Enrollment courses receive both Linn-Mar and Kirkwood Community College credit upon successful completion of course requirements. Students taking a Concurrent or an Alternative Concurrent Enrollment course must meet and follow all course guidelines of Kirkwood Community College and understand that course performance becomes part of the individual's permanent college record.

Concurrent and Alternative Concurrent Enrollment Courses (cont.)

Students may enroll in Concurrent or Alternative Concurrent college courses under the following provisions:

- Alternative Concurrent Enrollment courses are intended for 9-12th grade students as part of their four-year plan.
- A course chosen under this option must be on the 28E agreement list (courses listed below) between Linn-Mar and Kirkwood Community College.
- The chosen course may not replace graduation requirements.
- The school district will pay for related tuition and related course fees.
- Students must maintain the minimum high school course load.
- Students wishing to enroll in Alternative Concurrent Enrollment courses must have a qualifying ACT, Accuplacer (Reading & Writing), or ALEKS (Math) placement exam score as required on file with Kirkwood Community College.

Concurrent Enrollment Courses

The following is a list of college-level courses offered on the Linn-Mar campus:

Behavior Management Childhood Growth and Development Civil Engineering and Architectural Design Composition I Composition II Computer Integrated Manufacturing Computer Science Principles Digital Electronics Environmental Sustainability Exploring Teaching Intermediate Spanish I Intermediate Spanish II Intro to Engineering Design Mathematics and Society Principles of Engineering Project Management Basics

Alternative Concurrent Enrollment Courses

The Linn-Mar Community School District contracts with Kirkwood Community College to offer the following alternative concurrent enrollment college courses on a Kirkwood Community College campus:

- American Sign Language I, II, III, IV Art Appreciation Calculus III Cultural Anthropology Encounters in Humanities Exploring Health Careers Fundamentals of Oral Communication Human Anatomy I Human Anatomy I Human Relations in Management Intro to Criminal Justice Introduction to Business Introduction to Ethics Introduction to Human Services
- Introduction to Sociology Marriage and Family Mass Media Medical Terminology Music Fundamentals Nurse Aide Nutrition Popular Culture Professionals in Health Social Problems Survey of World Religions Topics in Education US History Since 1877 US History to 1877

Alternative Programming Options

Academic Assistance Program

Linn-Mar High School's Academic Assistance program has two components: <u>Credit Completion</u> is for students who receive F+ (55% - 59%). Credit completion allows students to complete course work taken during the previous grading period in order to receive a passing grade. <u>Credit Recovery</u> is the second component of the program and is intended for junior/senior students who are significantly behind pace in earning credits for graduation. The Academic Assistance Counselor can answer questions for students and parents about guidelines and eligibility for the program.

Test Out Option

Students who wish to "test out" of various courses must notify <u>the building principal</u> in writing of their intent by May 1 for Year-Long and fall semester classes, and by December 1 for spring block classes. Within a six-week period, students will receive information related to critical course objectives and the criteria for assessment. Students will then be asked to demonstrate, via multiple performance measures, critical objective mastery for the course.

COMPASS Alternative Program

High School credits are available via the COMPASS alternative program. Linn-Mar will accept credit hours for approved courses that can be applied to requirements for the Linn-Mar High School diploma. Students should visit with their assigned counselor or the Academic Assistance Counselor to develop an approved plan for this option.

Teacher-Led Courses

Compass Core

English 9

Course #: Grade Level: Credits: Length: Format: Prerequisite:

9 10 2 Quarters Block

ENG110

<u>Considerations</u>: English 9 or English I required for graduation.

None

<u>Course Description</u>: This course develops communication skills in reading, speaking, listening, thinking and writing. It includes units in the short story, the novel, poetry, drama and research. The student will practice various forms of writing and will work toward improving grammar, mechanics, and vocabulary.

English 10

ENG200
10
10
2 Quarters
Block
English 9

<u>Considerations</u>: English 10 or English II is required for graduation

Course Description: This course develops communication skills in reading, speaking, listening, thinking and writing. It includes units in the short story, the novel, poetry, drama and research. The student will practice various forms of writing and will work toward improving grammar, mechanics, and vocabulary.

American Literature I

Course #:	ENG210e
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None
·	

Considerations: None

<u>Course Description:</u> Students will read, discuss, and analyze a variety of texts written by American authors, including short stories, plays, and The Great Gatsby. Students will research, collaborate, and present on topics related to the literature.

Journalism Course #: Grade Level: Credits: Length: Format: Prerequisite:	ENG220 10-12 5 1 Quarter Block None	ERGENCES BACENCES	NCAA	
Considerations:	None			

<u>Course Description</u>: This course is an introductory, overview class which teaches basic journalism skills while examining the role of newspapers in our society. Areas explored include newspaper interviewing, writing, and editing. Students are also introduced to the concepts of Press Law. This course DOES NOT meet the composition requirement for admission to UNI.

Multicultural Literature

Course #:	ENG255
Grade Level:	11-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None
-	

Considerations:

None

Course Description: Students will read selections that deal with across a variety of cultures. Students will complete multiple projects to promote lifelong literacy and will discover how technology and the internet can enhance reading selections. Some selections in this course have a more mature theme.

Writing

Course #:	ENG270
Grade Level:	11-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Consideration: Students should take this class if they need to improve their writing skills, and do not yet feel comfortable taking a college-level writing class.

Course Description: This course is designed for any student who is considering college, interested in improving general writing skills, and/or considering taking Composition I. Students will improve organizational skills in writing, learn how to develop their ideas, improve their skills in word choice and sentence structure, improve their mechanics in writing, improve their research skills, and learn how to better develop and write a research paper in MLA style. Papers may include the following essays: Personal, Definition, Division/Classification, Comparison/Contrast, and Persuasive. In addition, students will write a research paper in which they will support their position on a contemporary issue.

Reading I

Course #:	ENG290
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: None

Course Description: Students will read *Jurassic* Park. They will work on reading fluency and comprehension. Students will research, collaborate, and present on relevant topics. Students will also improve their writing skills.

Reading II

Course #:	ENG300
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Reading I
-	_

Considerations: None

Course Description: Students will read The Lost World. They will work on reading fluency and comprehension. Students will research, collaborate, and present on relevant topics. Students will also improve their writing skills. They will create a project that illustrates their learning over the course of the guarter.

Speech

Course #:	
Grade Level:	
Credits:	
Length:	
Format:	
Prerequisite:	

ENG310 11-12 5 1 Quarter Block



<u>Considerations</u>: Speech or Acting is required for graduation.

None

Course Description: Speech is designed to make students more effective communicators by emphasizing a variety of real-life speaking situations and building self-confidence in all of these settings. Because this is a performance based class, students should carefully consider conflicts which may result in absences.

English Skills

Course #:EGrade Level:9Credits:2Length:1Format:EPrerequisite:N

ENG335 9-12 2.5 1 Quarter Block None

Considerations: Meets on Fridays only

<u>Course Description:</u> Students will work on their areas of weakness in relation to reading, writing, or speaking. Students will demonstrate growth in this area through a relevant project.

Contemporary Literature

Course #:	ENG360
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: None

<u>Course Description:</u> Students will read a variety of selected contemporary titles. Students will complete multiple projects to promote lifelong literacy and will discover how technology and the internet can enhance reading selections. Some selections in this course have a more mature theme.

Contemporary Literature II

Course #:	ENG250
Grade Level:	10-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

<u>**Considerations:**</u> This course is designed for students who are motivated to read and complete projects independently.

Course Description: Students will read multiple novels of their choice of the appropriate reading level. Students will complete multiple projects to promote lifelong literacy and will discover how technology and the internet can enhance reading selections. Students will then present their projects to their peers.

Independent Novel Writing

Course #:	ENG400
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite: Writing and Creative Writing	

<u>**Considerations:**</u> This course is designed for the student who is considering writing as a profession.

<u>Course Description</u>: Students will spend their classes writing, revising, and meeting with their instructor to improve their writing skills.

Creative Writing

BOARD OF REGENTS	NCA

Course #:ENG410Grade Level:10-12Credits:5Length:1 QuarterFormat:BlockPrerequisite:None

Considerations: None

<u>Course Description</u>: This course is designed for students who genuinely like to write in a variety of forms. Students will take writing from the initial idea through the developmental and polishing stages. Pre-Algebra

Course #:	
Grade Level:	
Credits:	
Length:	
Format:	
Prerequisite:	

MAT115 9-12 5 credits per quarter 1 Semester Block None

<u>Considerations</u>: A scientific calculator or its equivalent required. Graphing calculators are not allowed in this course.

<u>Course Description:</u> This course is an introductory class for Algebra. It is designed to review basic skills and math concepts. Elementary algebra skills with variables and problem-solving techniques will be imperative to the curriculum.

Algebra Fundame	ntals I
Course #:	MAT150
Grade Level:	10-11
Credits:	5 credits per quarter
Length:	1 Semester
Format:	Block
Prerequisite:	Pre-Algebra and approval

Considerations: Students are placed in this course per approval of the math department based on Pre-Algebra performance. A scientific calculator or equivalent is required. Graphing calculators are not allowed in this course. Algebra Fundamentals I and Algebra Fundamentals II together meet the algebra graduation requirement.

<u>Course Description:</u> This course is designed to include material covered in the first semester of Algebra. Topics include negative numbers, absolute values, opposites, linear equations, and inequalities in word problems.

Algebra Fundamentals II

NCA

Course #: Grade Level: Credits: Length: Format: Prerequisite:

10-12 5 credits per quarter 1 Semester Block Algebra Fundamentals I or approval

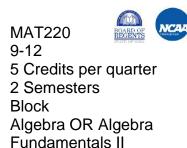
Considerations: Students are placed in this course per approval of the math department based on Algebra, and Iowa Assessment scores. A scientific calculator or equivalent is required. Graphing calculators are not allowed in this course. Algebra Fundamentals I and Algebra Fundamentals I together meet the algebra graduation requirement.

MAT155

Course Description: This course is designed to include material covered in the second semester of Algebra. Topics include negative numbers, absolute values, opposites, linear equations, and inequalities in one variable word problems, factoring, graphing, and quadratic equations.

Geometry

Course #: Grade Level: Credits: Length: Format: Prerequisite:



Considerations: A scientific calculator is required. Graphing calculators are not allowed in this course.

Course Description: Geometry introduces the study of points, lines, planes, polygons, circles, solid figures, and their associated relationships as a mathematical system. Emphasis is placed on the description and use of inductive, deductive, and intuitive reasoning skills. Power of abstract reasoning, spatial visualization and logical reasoning patterns are improved through this course. Focus on comparisons between figures concerning surface areas, volumes, congruency, similarity, transformations, and coordinate geometry is also studied through two and three Diagrams.

General Biology I & II

Course #:	SCI210
Grade Level:	9-12
Credits:	10
Length:	2 Quarters
Format:	Block
Prerequisite:	None

<u>**Considerations:**</u> Strong comprehensive vocabulary, reading and study skills.

<u>Course Description:</u> This course is a survey class in life science. The areas investigated include: biological structure and function; heredity; life's continuity and change; diversity of life.

Stream & Field Biology

Course #:	SCI280
Grade Level:	10-12
Credits:	5
Length:	1 Quarters
Format:	Block
Prerequisite:	General Biology

<u>Considerations:</u> See prerequisites. Strong comprehensive vocabulary, reading and study skills. This course meets the L-M science elective requirement.

<u>Course Description</u>: This course emphasizes critical thinking and application of scientific process skills in the identification, analysis, and evaluation of environmental problems and issues, as well as discussions of potential solutions.

Human Anatomy

Course #:	
Grade Level:	
Credits:	
Length:	
Format:	
Prerequisite:	

SCI240 10-12 5 1 Quarter Block General Biology

Considerations: See prerequisites. Strong comprehensive vocabulary, reading and study skills. This course meets the L-M science elective requirement.

<u>Course Description:</u> This course provides students with the fundamental concepts of human structure and function as it pertains to their bodies.

Nature of Science

Course #:	SCI260
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

<u>Considerations:</u> Strong comprehensive vocabulary, reading and study skills. This course meets the physical science requirement for graduation.

Course Description: This course examines what science is, how it works, and what it can and cannot do. A number of activities and open inquiries look at some fundamental properties and laws of the physical world. These properties include motion, forces, momentum, and energy.

Advanced Biology

SCI230
10-12
5
1 Quarter
Block
General Biology

<u>Considerations:</u> See prerequisites. See prerequisites. Strong comprehensive vocabulary, reading and study skills. This course meets the L-M science elective requirement

<u>Course Description:</u> This course provides a more in-depth study of many areas of biology. The areas of emphasis include cell processes, energy pathways, genetics, DNA structure, and the regulation of gene expression.

Compass Electives

Botany

Course #: Grade Level: Credits: Length: Format: Prerequisite:

AGR230 10-12 5 1 Quarter Block **Biology** I

Considerations: See prerequisites. Strong comprehensive vocabulary, reading and study skills. This course meets L-M science elective credit requirement.

Course Description: Students will have experiences with a number of plant science concepts with many "hands-on" activities, projects, and problems. Student experiences will involve the study of plant anatomy and physiology, classification, and the planning, planting and caring for a school garden.

Personal Finance

Course #: Grade Level: Credits: Length: Format: Prerequisite:

BUS110 or BUS110E 1 Quarter Block

Considerations: This course meets all financial literary standards of the lowa Core.

none

9-12

5

Course Description: This course exposes students to areas of personal finance that they will likely encounter. The curriculum covers, among other topics: consumer awareness, money management, opening bank accounts, managing a checkbook, managing credit, applying for a job and basic information about saving and investing. Information will be presented through projects, activities, guest speakers and multimedia presentations.

Math for the Building Trades

Course #:	MAT425
Grade Level:	9-12
Credits:	5 Credits per quarter
Length:	1 Semester
Format:	Block
Prerequisite:	None

Considerations: None

Course Description: This course is directed toward students who are considering employment in the building trades upon graduation. Students will integrate arithmetic, algebra, and geometry to perform calculations required in all of the major building trades, including construction, carpentry, plumbing, electrical, HVAC, and roofing.

Teen Insights

HPE350
9-12
5
1 Quarter
Block
None

Considerations: None

Course Description: The class is a combination of notes, chapters from 7 Habits of Highly Effective Teens, movies, projects, and community speakers including Planned Parenthood and ASAC. Students will explore a variety of topics and issues relevant to teens. Students will research and present on multiple topics throughout the course.

Teacher's Assistant

Course #:	ELT100
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	Student must have passed
	the course for which they
	are the Teacher's
	Assistant.

Considerations: Instructor must approve

<u>Course Description:</u> Students will help the teacher with day to day activities.

Introduction to Business

Course #:	BUS120
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: None

<u>Course Description</u>: This course will give students an overview of the study of business including: economic decisions, systems, and roles, business structures, economic measurements and leadership, social responsibility and business ethics.

Introduction to Business II

BUS150
9-12
5
1 Quarter
Block
None

Considerations: None

<u>Course Description:</u> This course will continue the overview of the study of business including: International business, small business management, maintaining financial information, human resources, career planning, and the role of the consumer.

Economics I

Course #:	SOC310
Grade Level:	9 -12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

<u>Considerations</u>: Students should be comfortable working with graphs.

<u>Course Description</u>: This course will focus on economic concepts: free enterprise, supply, demand, equilibrium, shifting demand and supply curves, consumers, savers, and investors, and financing.

Economics II

Course #:	SOC311
Grade Level:	9-12
Credits:	5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: Students should be comfortable working with graphs.

Course Description: This course will continue to focus on economic concepts: GDP, productivity, the labor force, competition, the government's role in the economy, the money supply, international trade and globalization.

<u>PE</u>

Course #:	HPE300
Grade Level:	9-12
Credits:	2.5
Length:	1 Quarter
Format:	Block
Prerequisite:	None

Considerations: Meets on Fridays only

Course Description: Students will improve their strength, agility, and speed while participating in activities that will develop lifelong healthy habits.

Independent Foods

HPE115
9-12
2.5
1 Quarter
Block
None

Considerations: Meets on Fridays only

Course Description: Students will explore what goes into budgeting and meal planning. Student will prepare a variety of foods

Career and Technical Education Service Areas and Career Clusters

Appl	ied Science, Technology, Engineering, and Manufacturing Architecture
	Science, Technology, Engineering & Mathp. 152 Transportationp. 151
Agric	cultural, Food, and Natural Resources
	Agricultural, Food, & Natural Resourcesp. 137
Arts,	Communication, and Information Systems
	Arts
	Information Technologyp. 147
Busir	ness, Finance, Marketing, and Management
	Business, Management, and Administrationp. 140
	Finance
	ivial ketilig
Heal	th Science
	Health Sciencesp. 144
Hum	an Services
	Education and Trainingp. 141
	Human Servicesp. 146
	Hospitality and Tourismp. 155
	Government and Public Administration
	Law, Public Safety, Corrections, and Securityp. 148

2021-2022 Career Pathway: Agriculture



Landscaper

Naturalist

Park Ranger

Pet Groomer

Veterinarian

Microbiologist

Veterinarian Tech

Wastewater Mngt.

Learn more & apply



A career in agriculture, food, and natural resources requires certain skills and education depending on job requirements. Skills include promotion, processing, marketing, distribution, financing, and development of agricultural commodities including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Ag Mechanic

Agronomist

Botanist

Geologist

Agriculture Sales

Conservationist

Floral Designer

Exposure Pathways High School Courses

Food Science & Safety
Animal & Plant Biotechnology
Ag. Business Foundations
Ag. Research & Development
AP Environmental Science
Environmental Sustainability

High School Clubs & Organizations

FFA

Venture Academics

Venture Environmental Science (AP Environmental Science, Venture) Venture Earth Science (Earth Science, College Reading, Venture)

Certificates/Diplomas

Pursuit Pathways

Ag Production	Water Environmental Technology
Pet Grooming	Water Treatment Specialist
Golf Course & Athletic Turfgrass Mgmt	Wastewater Specialist
Veterinary Asst	Ag Geospatial Technology
Animal control Asst	Water Environmental Technology
Landscape Constrution & Design	

Associate Degrees

Ag Geospatial Technology	Veterinary Technology
Ag Business	Humane Officer
Ag Production Mgmt	Landscape Constrution & Design
Diesel Ag Technology	Parks & Natural Resources
Golf Course & Athletic Turfgrass Mgmt	Water Environmental Technology

Bachelor Degrees

Environmental Studies Food Science Animal Science

Careers & Median Salary Information

Animal Care Worker \$54,000

\$45,000

Recycling Coordinator \$56,000

Food Science Technician \$46,000

Job Shadows & Internships

Golf Course & Turfgrass Management

GPS/GIS Specialist - Agriculture

Geothermal Technician \$38,000 Heavy Equipment Mechanic:

Agricultural Inspector \$51,000

Careers & Median Salary Information

Veterinary Technologist \$33,500

Chemical Technician \$41,500

Landscaping & Groundskeeping \$40,100

Careers & Median Salary Information

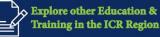
Food Scientist \$62,500

Greenhouse Manager \$42,000

Aquacultural Manager \$42,000

Environmental Scientist \$68,000





2021-2022

Career Pathway: Architecture

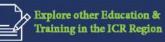




A career in architecture and construction requires certain skills and education depending on job requirements. Skills include designing, planning, managing, building, and maintaining the built environment.

High School Courses		Job Shadows & Interr	nships
Mechanical Drawing	Metals	Civil Engineer	Project Engineer
Residential Construction 1	Building Trades	Construction	Project Managemer
Residential Construction 2	PLTW Civil Engineering & Architect	Pre-Fabrication	CAD Design
Woods	Design	Architecture	(Learn more 8
Cabinetmaking	Interior Design	-	
High School Clubs & Org	anizations		
Robotics	Femineers		
Experience Pathways			
College CTE Courses in Hi	igh School	Kirkwood Career Aca	ademies
Civil Engineering and Architectura	l Design	Architecture, Construction	& Engineering (ACE) Academ
Pursuit Pathways			
Certificates/Diplomas		Careers & Median Sa	alary Information
CAD/Mechanical Engineering Tech	1. Construction Estimator	Solar Energy Installation	Pipe Fitter & Steamfitter
Carpentry	Construction Supervision Certificate	\$60,000	\$55,700
IVAC Installer		Plumber	Crane Operator
Plumbing Pre-Apprenticeship		\$55,700	\$53,600
Associate Degrees		Careers & Median Sa	alary Information
Architecture Technology	Construction Management	Electronic Drafter	Survey Technician
CAD/Mechanical Engineering Tech		\$57,000	\$51,000
		Mechanical Drafting \$54,000	
Bachelor Degrees		Careers & Median Sa	alary Information
Architecture	Industrial Engineer	Commercial & Industrial	Commercial Designer
Divil Engineering	Construction Management	Designer	\$60,000
ndustrial Design		- \$60,000	Landscape Architect
		Surveyor	\$46,700





2021-2022

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PRG

Career Pathway: Arts, Audio/Visual Technology, and Communications



A career in arts, audio/visual technology and communications requires certain skills and education depending on job requirements. Skills include designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Exposure Pathwa	ys			
High School Cou	rses		Job Shadows & Inter	rnships
esign: Art Basics	Drawing in Style	Fashion & Sewing	Graphic Designer	Photography
eginning Painting	Exploration in Ceramic	Advanced Sewing	Events Assistant	News & Broadcast
eginning Drawing	Technique	Journalism	Production Assistant	Radio
eginning Ceramics	Digital Photography	Creative Writing	Marketing	Writing
D Mixed Media	Graphics One	College Grammar	Sports	Community Engageme
xpressive Drawing	Graphics Two	Intro to College Writing	oporta	
Construction in Clay	Advanced Art	Speech		Learn more & apj
D Mixed Media	Interior Design	Acting		-10
High School Club	os & Organizations		Experience Pathway	
art Club	Student News	paper	College CTE Course	es in High School
nime Club	LMTV		Art Appreciation	Fundamentals of Oral Comm.
'earbook			Composition 1	Mass Media
			Composition 2	
Venture Academi	cs			
	& Communications (Graphic to College Writing, Journalisi			
⁷ enture Writing (Intro t Pursuit Pathways	to College Writing, Journalisi		re)	Salary Information
Venture Writing (Intro t Pursuit Pathways Certificates/Diplo ocial Media Marketing	to College Writing, Journalist			Salary Information Floral Designer \$26,000
enture Writing (Intro t Pursuit Pathways Certificates/Diplo ocial Media Marketing	to College Writing, Journalist		re) Careers & Median & Fine Artist	Floral Designer
Tenture Writing (Intro t Pursuit Pathways Certificates/Diplo ocial Media Marketing Veb Development	omas Web Design		Carcers & Median S Fine Artist \$19,200 Broadcast Technician	Floral Designer \$26,000 Printing Press Operator \$32,700
Venture Writing (Intro t Pursuit Pathways Certificates/Diplo ocial Media Marketing Web Development Associate Degrees Graphic Communicatio	ormas Web Design	m, College Grammar, Ventu	re) Carcers & Median & Fine Artist \$19,200 Broadcast Technician \$31,660 Careers & Median & Desktop Publisher	Floral Designer \$26,000 Printing Press Operator \$32,700 Salary Information Camera Operator
Tenture Writing (Intro t Pursuit Pathways Certificates/Diplo ocial Media Marketing Veb Development Associate Degrees	ormas Web Design	m, College Grammar, Ventu	re) Carcers & Median & Fine Artist \$19,200 Broadcast Technician \$31,660 Careers & Median &	Floral Designer \$26,000 Printing Press Operator \$32,700 Salary Information
Tenture Writing (Intro to Pursuit Pathways Certificates/Diplot ocial Media Marketing Veb Development Associate Degrees Graphic Communication Veb Development	omas Web Design	m, College Grammar, Ventu	re) Carcers & Median & Fine Artist \$19,200 Broadcast Technician \$31,660 Carcers & Median & Desktop Publisher \$40,000 Fashion Designer	Floral Designer \$26,000 Printing Press Operator \$32,700 Salary Information Camera Operator \$28,800
Tenture Writing (Intro to Pursuit Pathways) Certificates/Diplo ocial Media Marketing Veb Development Associate Degrees	omas Web Design	m, College Grammar, Ventu	re) Careers & Median & Fine Artist \$19,200 Broadcast Technician \$31,660 Careers & Median & Desktop Publisher \$40,000 Fashion Designer \$41,220	Floral Designer \$26,000 Printing Press Operator \$32,700 Salary Information Camera Operator \$28,800



∧ Explore other Careers in

the ICR Region

Explore other Education &

Training in the ICR Region

2021-2022 Career Pathway: Business Management





A career in business management and administration requires certain skills and education depending on job requirements. Skills include planning, organizing, directing, and evaluating business functions essential to productive business operations.

Exposure Pathways			
High School Courses		Job Shadows & Interns	ships
Accounting	Marketing	Business Management	Operations
Advanced Accounting	Business/Consumer Law	Clerical Assistant	Publications
heROARstore	Entrepreneurship	Hockey Operations	Safety & Loss
ntroduction to Business	Agriculture Business Foundations	Hospital Administration	Administrative
conomics		Human Resources	Business Development
		Marketing	(Learn more & app
High School Clubs & Organi	izations		Carl more et upp
BLA (Future Business Leaders of Am		Experience Pathways	
tudent Council		Collour CTT Comme	in Thick Colored
		College CTE Courses	in riigh School
Vantura A and miles		Introduction to Business	
Venture Academics		Human Relations in Managem	ient
enture Business Foundations (Intro t	o Business, Marketing, Communications, V	Venture)	
	Consumer Law, Entrepreneurship, Intro to		
		o or	
Dunauit Dathanana			
Pursuit Pathways		_	
101.		Careers & Median Sa	lary Information
Certificates/Diplomas	Entrepreneurship	Careers & Median Sa Admin. Assistant	lary Information Tax Preparer
Certificates/Diplomas Office Assistant	Entrepreneurship Human Resources	2	
Certificates/Diplomas Office Assistant Aedical Coding		Admin. Assistant	Tax Preparer
Certificates/Diplomas Office Assistant Aedical Coding Aedical Transcription	Human Resources	Admin. Assistant \$35,800	Tax Preparer \$38,300
Certificates/Diplomas Office Assistant Aedical Coding Aedical Transcription echnical Accounting	Human Resources Project Management	Admin. Assistant \$35,800 Data Entry	Tax Preparer \$38,300 Bookkeeping
Certificates/Diplomas Office Assistant Aedical Coding Aedical Transcription echnical Accounting	Human Resources Project Management	Admin. Assistant \$35,800 Data Entry \$32,500	Tax Preparer \$38,300 Bookkeeping
Certificates/Diplomas Office Assistant fedical Coding fedical Transcription echnical Accounting flobal Perspectives in Business	Human Resources Project Management	Admin. Assistant \$35,800 Data Entry \$32,500 Payroll Clerk	Tax Preparer \$38,300 Bookkeeping \$37,800
Certificates/Diplomas Office Assistant Medical Coding Medical Transcription echnical Accounting Global Perspectives in Business Associate Degrees	Human Resources Project Management Medical Transcription	Admin. Assistant \$35,800 Data Entry \$32,500 Payroll Clerk \$42,100	Tax Preparer \$38,300 Bookkeeping \$37,800
Certificates/Diplomas Office Assistant Medical Coding Medical Transcription Technical Accounting Global Perspectives in Business Associate Degrees Business Admin.: Accounting	Human Resources Project Management Medical Transcription Administrative Management	Admin. Assistant \$35,800 Data Entry \$32,500 Payroll Clerk \$42,100 Careers & Median Sa	Tax Preparer \$38,300 Bookkeeping \$37,800
Certificates/Diplomas Office Assistant Medical Coding Medical Transcription Technical Accounting Global Perspectives in Business Associate Degrees Business Admin.: Accounting Business Admin.: Financial Services	Human Resources Project Management Medical Transcription Administrative Management Health Information Technology	Admin. Assistant \$35,800 Data Entry \$32,500 Payroll Clerk \$42,100 Careers & Median Sa Executive Secretary	Tax Preparer \$38,300 Bookkeeping \$37,800 lary Information Legal Secretary
Certificates/Diplomas Office Assistant Medical Coding Medical Transcription echnical Accounting Global Perspectives in Business Associate Degrees Business Admin.: Accounting Business Admin.: Financial Services	Human Resources Project Management Medical Transcription Administrative Management	Admin. Assistant \$35,800 Data Entry \$32,500 Payroll Clerk \$42,100 Careers & Median Sa Executive Secretary	Tax Preparer \$38,300 Bookkeeping \$37,800 lary Information Legal Secretary
Certificates/Diplomas Office Assistant Aedical Coding Aedical Transcription Technical Accounting Global Perspectives in Business Associate Degrees Business Admin.: Accounting Business Admin.: Financial Services Business Admin.: Management	Human Resources Project Management Medical Transcription Administrative Management Health Information Technology	Admin. Assistant \$35,800 Data Entry \$32,500 Payroll Clerk \$42,100 Careers & Median Sa Executive Secretary \$50,000	Tax Preparer \$38,300 Bookkeeping \$37,800 Iary Information Legal Secretary \$35,900
Certificates/Diplomas Office Assistant Aedical Coding Aedical Transcription echnical Accounting Blobal Perspectives in Business Associate Degrees Business Admin.: Accounting Business Admin.: Financial Services Business Admin.: Management	Human Resources Project Management Medical Transcription Administrative Management Health Information Technology	Admin. Assistant \$35,800 Data Entry \$32,500 Payroll Clerk \$42,100 Careers & Median Sa Executive Secretary	Tax Preparer \$38,300 Bookkeeping \$37,800 Iary Information Legal Secretary \$35,900
Certificates/Diplomas Office Assistant Medical Coding Medical Transcription Echnical Accounting Clobal Perspectives in Business Associate Degrees Business Admin.: Accounting Usiness Admin.: Financial Services Usiness Admin.: Management Bachelor Degrees	Human Resources Project Management Medical Transcription Administrative Management Health Information Technology Business Admin. w/ Transfer Option	Admin. Assistant \$35,800 Data Entry \$32,500 Payroll Clerk \$42,100 Careers & Median Sa Executive Secretary \$50,000 Careers & Median Sa Marketing Manager	Tax Preparer \$38,300 Bookkeeping \$37,800 lary Information Legal Secretary \$35,900 lary Information Technical Writer
Difice Assistant Medical Coding Medical Transcription Fechnical Accounting Global Perspectives in Business Associate Degrees Business Admin.: Accounting Business Admin.: Financial Services Business Admin.: Management Bachelor Degrees Business	Human Resources Project Management Medical Transcription Administrative Management Health Information Technology Business Admin. w/ Transfer Option Business Management	Admin. Assistant \$35,800 Data Entry \$32,500 Payroll Clerk \$42,100 Careers & Median Sa Executive Secretary \$50,000	Tax Preparer \$38,300 Bookkeeping \$37,800 lary Information Legal Secretary \$35,900 lary Information
Pursuit Pathways Certificates/Diplomas Office Assistant Medical Coding Medical Coding Medical Transcription Technical Accounting Global Perspectives in Business Associate Degrees Business Admin.: Accounting Business Admin.: Financial Services Business Admin.: Management Bachelor Degrees Business Business Administration Business Information Systems	Human Resources Project Management Medical Transcription Administrative Management Health Information Technology Business Admin. w/ Transfer Option	Admin. Assistant \$35,800 Data Entry \$32,500 Payroll Clerk \$42,100 Careers & Median Sa Executive Secretary \$50,000 Careers & Median Sa Marketing Manager \$91,600	Tax Preparer \$38,300 Bookkeeping \$37,800 lary Information Legal Secretary \$35,900 lary Information Technical Writer

Career Pathway: *Education & Training*



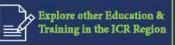


A career in education and training requires certain skills and education depending on job requirements. Skills include planning, managing, and providing education and training service, and related learning support services.

High School Courses		Job Shadows & Internsh	ips
Human Growth and Development	KCC Child Growth and Development	Counselor	Librarian
Introductory Psychology	Exploring Teaching	Child Development Specialist	Teacher & Classroom Assistant
AP Psychology		High School Athletic Director	Youth Ministry
High School Clubs & Orga	nizations	Hockey Assistant Coaching	Tutorial Admin. Assistant
LM Buddies	TRY (Teens Reaching Youth)	Experience Pathways	Chi Chi
Ok Without Drugs and Alcohol	Student Ambassadors	College CTE Courses in	High School
		KCC Child Growth and Develop	ment Intro to Human Services
		Exploring Teaching	Behavior Management

Certificates/Diplomas		Careers & Median Sa	lary Information
Early Childhood Paraeducator	Early Childhood Education	Library Assistant \$22,400 Vocational Education Teacher \$73,150	Special Education Teacher <i>\$44,400</i> Teacher Assistant <i>\$26,400</i>
Associate Degrees		Careers & Median Sa	lary Information
Early Childhood Education Exercise Science and Wellness	Liberal Arts: Ed. w/ Transfer Option	Education Administrator, Preschool & Childcare Cen \$31,200	ter
Bachelor Degrees		Careers & Median Sa	lary Information
Elementary Education	Organizational Leadership	Kindergarten Teacher \$63,100	Special Education Teacher \$57,300
Secondary Education	Athletic Training	Physical Education Teacher \$59,400	





Career Pathway: *Finance*



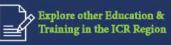


A career in finance requires certain skills and education depending on job requirements. Skills include planning services for financial and investment planning, banking, insurance, and business financial management.



Certificates/Diplo	mas	Careers & Median S	alary Information
Technical Accounting		Statement Clerk \$40,200	Loan Counselor \$33,000
		Bill & Account Collector \$36,000	Bank Teller \$28,200
Associate Degrees		Careers & Median S	alary Information
		Insurance Appraiser	
Business Administration	Accounting		
Business Administration Business Administration		\$34,200	
			alary Information
Business Administration		\$34,200	alary Information Budget Analyst \$70,300





2021-2022 Career Pathway: Government





A career in government and public adminstration requires certain skills and education depending on job requirements. Skills include planning and performing government functions at the local, state, and federal levels, including goverance, national security, foreign service, planning, revenue and taxation, and regulations.

High School Courses		Job Shadows & Intern	ships
aw and Constitution	AP Comparative Government	City Clerk	Presidential Campaign
overnment	Business/Consumer Law	Congressional Campaign	Civl Rights
P Government			Learn more a
High School Clubs & Org	ganizations	Experience Pathways	
oung Democrats	Model UN	College CTE Courses	in High School
oung Republicans		Introduction to Criminal Just	ice Social Problems
· · · ·		l.	
Venture Academics			
enture Government and Law (G	overnment, Law & the Constitution, Intro to	College Writing, Venture)	
Pursuit Pathways			
Certificates/Diplomas		Careers & Median Sa	lary Information
ffice Assistant	1	Administrative Service	Postmaster \$49,900
ince moustaite		Managor	
		Manager \$83,900	
			Meter Reader
		\$83,900	Meter Reader
Associate Degrees		\$83,900 Postal Service Mail Carrier	Meter Reader \$36,000
Associate Degrees	Administrative Management	\$83,900 Postal Service Mail Carrier \$50,000 Careers & Median Sa Assessor	Meter Reader \$36,000
Associate Degrees usiness Administration	Administrative Management ment Water Environmental Technology	\$83,900 Postal Service Mail Carrier \$50,000 Careers & Median Sa	Meter Reader \$36,000
Associate Degrees usiness Administration		\$83,900 Postal Service Mail Carrier \$50,000 Careers & Median Sa Assessor	Meter Reader \$36,000
Associate Degrees usiness Administration		\$83,900 Postal Service Mail Carrier \$50,000 Careers & Median Sa Assessor	Meter Reader \$36,000
Associate Degrees usiness Administration usiness Administration: Manage Bachelor Degrees	ment Water Environmental Technology	\$83,900 Postal Service Mail Carrier \$50,000 Careers & Median Sa Assessor \$73,200 Careers & Median Sa Statistical Assistant	Meter Reader \$36,000 lary Information lary Information Legislator
Associate Degrees usiness Administration usiness Administration: Manage		\$83,900 Postal Service Mail Carrier \$50,000 Careers & Median Sa Assessor \$73,200 Careers & Median Sa Statistical Assistant \$51,100	Meter Reader \$36,000 lary Information lary Information Legislator \$22,100
Associate Degrees usiness Administration usiness Administration: Manage Bachelor Degrees rban Planning	ment Water Environmental Technology	\$83,900 Postal Service Mail Carrier \$50,000 Careers & Median Sa Assessor \$73,200 Careers & Median Sa Statistical Assistant	Meter Reader \$36,000 lary Information lary Information Legislator
Associate Degrees usiness Administration usiness Administration: Manage Bachelor Degrees Irban Planning	ment Water Environmental Technology	\$83,900 Postal Service Mail Carrier \$50,000 Careers & Median Sa Assessor \$73,200 Careers & Median Sa Statistical Assistant \$51,100 Social and Community Service Manager	Meter Reader \$36,000 lary Information Legislator \$22,100 Financial Examiner

2021-2022 Career Pathway: Health Sciences

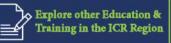




A career in health sciences requires certain skills and education depending on job requirements. Skills include planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

High School Courses			Job Shadows	& Internshi	ps	
	mistry l Health II		Chiropractic & We	- 21	Oncology	
	Biology		Nursing	.uness	Optician	
ALC: NO DESCRIPTION OF A D	Chemistry		Dental		Physical 7	Therapy
			Dietary		Personal	
High School Clubs & C	Organizations		Dermatology		Radiology	Y
HOSA	Science Club		Occupational Ther	apy	Physician	Assistant
Red Cross Club					-	
Venture Academics					(?	Learn more & app 3
Venture Health (Health 1, Hea	lth 2, Venture)					
Experience Pathways						
College CTE Courses i	in High School		Kirkwood Ca	reer Acade	mies	
Human Anatomy I	Nutrition		Emergency Medic	al Tech.(EMT)	Pre-Prof.	Health Careers Acade
Human Anatomy II	Medical Terminology		Patient Care Acade			
			Pharmacy Technic	ian Academy		
Pursuit Pathways						
Certificates/Diplomas						
Certificates/Dipionas			Careers & M	edian Salar	y Infori	mation 🔍
	Pharmacy Technician		Licensed Practic	al & Licensed	Dental I	Lab Tech
Dental Assisting Medical Coding	Surgical Technology		Licensed Practic Vocational Nurs	al & Licensed		Lab Tech
Dental Assisting Medical Coding Medical Assisting			Licensed Practic Vocational Nurs \$42,100	al & Licensed e	Dental I \$41,200 Dental I	Lab Tech Assistant
Dental Assisting Medical Coding Medical Assisting Medical Transcription	Surgical Technology		Licensed Practic Vocational Nurs \$42,100 Ophthalmic Mee	al & Licensed e	Dental I \$41,200	Lab Tech Assistant
Dental Assisting Medical Coding Medical Assisting Medical Transcription	Surgical Technology Medical Transcription		Licensed Practic Vocational Nurs \$42,100	al & Licensed e	Dental I \$41,200 Dental I	Lab Tech Assistant
Dental Assisting Medical Coding	Surgical Technology Medical Transcription Nurse Aide		Licensed Practic Vocational Nurs \$42,100 Ophthalmic Mee	al & Licensed e dical Tech	Dental I \$41,200 Dental 4 \$40,300	Lab Tech Assistant
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees	Surgical Technology Medical Transcription Nurse Aide	Occupational	Licensed Practic Vocational Nurs \$42,100 Ophthalmic Mea \$41,500	al & Licensed e dical Tech Careers & Dental Hyg	Dental I \$41,200 Dental <i>I</i> \$40,300 & Media	Lab Tech Assistant I II Salary Inf. Registered Nurse
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN)	Surgical Technology Medical Transcription Nurse Aide EMT	Occupational	Licensed Practic Vocational Nurs \$42,100 Ophthalmic Mea \$41,500	al & Licensed e dical Tech Careers & Dental Hyg \$69,100	Dental I \$41,200 Dental 4 \$40,300 & Media ienist	Lab Tech Assistant In Salary Inf. Registered Nurse \$69,100
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting	Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness		Licensed Practic Vocational Nurs \$42,100 Ophthalmic Mee \$41,500	al & Licensed e dical Tech Careers & Dental Hyg \$69,100 Diagnostic	Dental I \$41,200 Dental 4 \$40,300 & Media ienist Medical	Lab Tech Assistant In Salary Inf. Registered Nurse \$69,100 Histotechnologist
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene	Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech. Medical Assisting	Paramedic	Licensed Practic Vocational Nurs \$42,100 Ophthalmic Mee \$41,500 Therapy	al & Licensed e dical Tech Careers & Dental Hyg \$69,100	Dental I \$41,200 Dental 4 \$40,300 & Media ienist Medical	Lab Tech Assistant In Salary Inf. Registered Nurse \$69,100
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene Dental Technology	Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech. Medical Assisting	Paramedic Physical Thera	Licensed Practic Vocational Nurs \$42,100 Ophthalmic Mee \$41,500 Therapy	al & Licensed e dical Tech Careers & Dental Hyg \$69,100 Diagnostic Sonographe	Dental I \$41,200 Dental 4 \$40,300 & Media ienist Medical	Lab Tech Assistant In Salary Inf. Registered Nurse \$69,100 Histotechnologist
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene Dental Hygiene Dental Technology Diagnostic Assistant (Rad. Tec	Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech. Medical Assisting h.) Medical Laboratory Tech.	Paramedic Physical Thera Respiratory Th	Licensed Practic Vocational Nurs \$42,100 Ophthalmic Med \$41,500 Therapy Therapy Therapy Assistant herapist toology Careers & M	al & Licensed e dical Tech Careers & Dental Hyg \$69,100 Diagnostic Sonographe \$62,800	Dental I \$41,200 Dental 4 \$40,300 & Media ienist Medical er	Lab Tech Assistant In Salary Inf. Registered Nurse \$69,100 Histotechnologist \$48,400
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene Dental Hygiene Dental Technology Diagnostic Assistant (Rad. Tech Electroneurodiagnostic Tech. Bachelor Degrees	Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech. Medical Assisting h.) Medical Laboratory Tech.	Paramedic Physical Thera Respiratory Th	Licensed Practic Vocational Nurs \$42,100 Ophthalmic Med \$41,500 Therapy Therapy Therapy Pay Assistant herapist hology Careers & M Clinical Researc	al & Licensed e dical Tech Careers & Dental Hyg \$69,100 Diagnostic Sonographe \$62,800	Dental I \$41,200 Dental 4 \$40,300 & Media ienist Medical er	Lab Tech Assistant In Salary Inf. Registered Nurse \$69,100 Histotechnologist \$48,400 mation Science Manager
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene Dental Hygiene Dental Technology Diagnostic Assistant (Rad. Tech	Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech. Medical Assisting h.) Medical Laboratory Tech. Associate Degree Nursing, RN	Paramedic Physical Thera Respiratory Th	Licensed Practic Vocational Nurs \$42,100 Ophthalmic Mee \$41,500 Iherapy Inpy Assistant herapist hology Carcers & M Clinical Researce \$111,800	al & Licensed e dical Tech Careers & Dental Hyg \$69,100 Diagnostic Sonographe \$62,800	Dental I \$41,200 Dental 4 \$40,300 & Media ienist Medical er y Inforn Natural 1 \$111,700	Lab Tech Assistant In Salary Inf. Registered Nurse \$69,100 Histotechnologist \$48,400 mation Science Manager
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene Dental Technology Diagnostic Assistant (Rad. Tec Electroneurodiagnostic Tech. Bachelor Degrees Biology	Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech. Medical Assisting h.) Medical Laboratory Tech. Associate Degree Nursing, RN	Paramedic Physical Thera Respiratory TI Surgical Techr	Licensed Practic Vocational Nurs \$42,100 Ophthalmic Med \$41,500 Therapy Therapy Therapy Pay Assistant herapist hology Careers & M Clinical Researc	al & Licensed e dical Tech Careers & Dental Hyg \$69,100 Diagnostic Sonographe \$62,800	Dental I \$41,200 Dental 4 \$40,300 & Media ienist Medical er y Inforn Natural 1 \$111,700	Lab Tech Assistant In Salary Inf. Registered Nurse \$69,100 Histotechnologis \$48,400 mation Science Manager





2021-2022 Career Pathway: Hospitality & Tourism

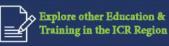




A career in hospitality and tourism requires certain skills and education depending on job requirements. Skills include management, marketing, and operations of restaurants and other culinary arts services, lodging, attractions, recreation events, and travel related services.

High School Courses		Job Shadows & Inte	ernships
Culinary Basics	ProStart Two	Cafe Line Cook	Special Events
Foundations of Living	Food Science and Safety	Chef Assistant	Travel Agent
ProStart One		Cosmetology	Learn more &
Experience Pathways			
College CTE Courses in I	ligh School	2	
ProStart One	ProStart Two		
Pursuit Pathways			
Certificates/Diplomas		Careers & Median	Salary Information
Baking & Pastry Arts	Hospitality Management	Gaming Manager \$57,600	Tour Guide \$28,800
Baking & Pastry Arts	Hospitality Management		
Baking & Pastry Arts Associate Degrees	Hospitality Management	\$57,600 Animal Trainer \$31,500	\$28,800 Hotel, Motel, & Resort Desk Clerk
Associate Degrees	Hospitality Management Hospitality Management	\$57,600 Animal Trainer \$31,500	\$28,800 Hotel, Motel, & Resort Desk Clerk \$21,400
Associate Degrees Culinary Arts		\$57,600 Animal Trainer \$31,500 Careers & Median Travel Agent \$4,700	\$28,800 Hotel, Motel, & Resort Desk Clerk \$21,400 Salary Information Chef & Head Cook \$37,000
Associate Degrees Culinary Arts Bachelor Degrees	Hospitality Management	\$57,600 Animal Trainer \$31,500 Careers & Median Travel Agent \$4,700 Careers & Median	\$28,800 Hotel, Motel, & Resort Desk Clerk \$21,400 Salary Information Chef & Head Cook
Associate Degrees Culinary Arts		\$57,600 Animal Trainer \$31,500 Careers & Median Travel Agent \$4,700	\$28,800 Hotel, Motel, & Resort Desk Clerk \$21,400 Salary Information Chef & Head Cook \$37,000 Salary Information





2021-2022 Career Pathway: Human Services





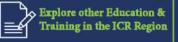
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A career in human services requires certain skills and education depending on job requirements. Skills include preparing individuals that relates to family and human needs such an counseling and mental health services, family and community services, personal care, and consumer services.

High School Courses		Job Shadows & Internships	
Introductory Psychology	Human Growth and Development	Activity Coordinator	Therapist Assistant
Sociology	KCC Child Growth and Development	Event Planning	Waypoint Ambassador
AP Psychology	Exploring Teaching	Medical Clinic	Volunteer Coordinator
		Experience Pathways	Star Star Star Star Star Star Star Star
High School Clubs & O	rganizations	Experience rathways	
	rganizations TRY (Teens Reaching Youth)	College CTE Courses	in High School
Best Buddies SODA (Students Ok Without	·		in High School KCC Child Growth and Dev
Best Buddies SODA (Students Ok Without	TRY (Teens Reaching Youth)	College CTE Courses	
High School Clubs & O Best Buddies SODA (Students Ok Without Drugs and Alcohol)	TRY (Teens Reaching Youth)	College CTE Courses Marriage and Family	KCC Child Growth and Dev

Certificates/Diplomas		Careers & Median S	alary Information
Early Childhood Paraeducator	Early Childhood Education	Preschool Teacher \$26,000	Nanny \$19,300
		Childcare Worker \$19,300	Fitness Trainer \$37,700
Associate Degrees		Careers & Median S	alary Information
Early Childhood Education	Human Services	Funeral Service Manager \$54,000	
Bachelor Degrees		Careers & Median S	alary Information
Social Work	Psychology	Social & Community Serv. Manager	• • • • • • • • • • • • • • • • • • • •
	Psychology	Social & Community Serv	ice Elementary Teacher





Career Pathway: *Information Technology*





A career in information technology requires certain skills and education depending on job requirements. Skills include building linkages in IT occupations for entry level, technical and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.



2021-2022

Career Pathway: Law





A career in law, public safety, corrections, and security requires certain skills and education depending on job requirements. Skills include planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services.

Exposure Pathways			
High School Courses		Job Shadows & Interns	ships
Government Law & the Constitution AP American Government	AP Comparative Government Sociology	Legal Administrative Assistant Legal Support Police Officer	Receptionist & Security Safety & Security
High School Clubs & Orga	anizations	Fonce Oncer	Learn more & apply
Debate Club Democrats of Linn-Mar	Republicans of Linn-Mar Model United Nations		Ň
Experience Pathways			
College CTE Courses in H	ligh School	Kirkwood Career Aca	demies
Introduction to Criminal Justice Social Problems	Introduction to Sociology	Emergency Medical Technici	an
Venture Academics			
Venture Government and Law (Gov Pursuit Pathways	vernment, Law & the Constitution, Intro	to College Writing, Venture)	
Certificates/Diplomas		Careers & Median Sa	lary Information
Entry-Level Firefighter Emergency Medical Technician	Entry-Level Firefighter	Legal Secretary \$36,000	Fire Inspector \$70,000
		Correctional Officer \$50,700	Fire Fighter \$67,600
Associate Degrees		Careers & Median Sa	lary Information
Criminal Justice Entry-Level Firefighter	Paralegal Studies Paramedic	Paralegal \$44,000	
Bachelor Degrees		Careers & Median Sal	lary Information
Public Health	Linguistics	Private Detective \$75,000	Intelligence Analyst \$58,000
Criminology		Loss Prevention Manager \$63,400	Arbitrator, Mediator & Conciliator \$81,500
Community vr PR (* MISE Patria by M-DCO v	Explore other Education		areers in

2021-2022

Career Pathway: Manufacturing





A career in manufacturing requires certain skills and education depending on job requirements. Skills include planning, managing, and performing the process of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.



Career Pathway: *Marketing*





A career in marketing requires certain skills and education depending on job requirements. Skills such as anticipating, planning, managing, and performing marketing activities to reach organizational objectives such as advertising and promotion techniques, business communication, and business development.

bb Shadows & Internships siness Development & Event Promotions rket Research Analyst rketing & Communications igh School Clubs & Organizations ure Business Leaders of America ure Business Leaders of America ure Business Leaders of America Example 1 lege Writing, Venture) Careers & Median Salary Information Demonstrators & Product Parts Salespersons *334,000
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Careers & Median Salary Information
Demonstrators & Product Parts Salespersons
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romoters \$34,000
The second se Second second s Second second se
24,000 Telemarketers
Real Estate Sales Agents \$28,600
548,000
Careers & Median Salary Information
Procurement Clerks Assessors
\$42,000 \$73,000
Careers & Median Salary Information
Online Merchants Sales Engineers
\$59,000 \$87,000
ales Managers Appraisers, Real Estate
\$98,000 \$73,000

2021-2022 Career Pathway: Transportation





A career in transportation, distribution, and logistics requires certain skills and education depending on job requirements. Skills include planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional support services such as transportation infrastructure planning and management, logistic services, mobile equipment and facility maintenance.

Exposure Pathways	
High School Courses	Job Shadows & Internships
Mechanical Drawing Metals	Auto Mechanic Assistant Flight Operations Diesel Technician
High School Clubs & Organizations	
Robotics	
Experience Pathways	
Kirkwood Career Academies	
Automotive Technology & Collision Repair	
Pursuit Pathways	
Certificates/Diplomas	Careers & Median Salary Information
Automotive Collision Repair	Transportation Vehicle, Cargo and Freight Agents Equipment and Systems \$33,000
	Inspectors \$83,000 Traffic Technicians
	\$31,000 Customs Brokers \$59,000
Associate Degrees	Careers & Median Salary Information
Automotive Technology Diesel Truck Technology Diesel Ag Technology	Aviation Inspectors \$83,000 Signal and Track Switch Repairers \$36,000
Bachelor Degrees	Careers & Median Salary Information
Finance Supply Chain Management	Transportation Managers Logistics Managers \$81,000 \$\$81,000
Business Administration	Storage and DistributionAirline Pilots, Copilots, andManagersFlight Engineers\$81,000\$76,000



PR

Explore other Education & Training in the ICR Region

2021-2022 Career Pathway: Science, Technology, Engineering & Math





A career in science, technology, engineering, and mathematics requires certain skills and education depending on job requirements. Skills include providing, planning, and managing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Exposure Pathways

Algebra 1A	General Biology	Animal and Plant Biotechnology	Bioethics
Algebra 1B	Chemistry 1	Agricultural Research & Dev.	AP Environmental Science
Algebra 1	Earth and Space Science	Environmental Sustainability	PLTW Environmental Sustainability
Geometry	Applied Chemistry & Physics	PLTW Engineering Design & Dev.	PLTW Intro to Eng.
Algebra 2A	Mechanical Drawing	Physics	PLTW Principles of Eng.
Algebra 2B	Int. to Agriculture, Food & Natural Res.	AP Chemistry	PLTW Aerospace Eng.
Algebra 2	Aquaculture Science	AP Biology	PLTW Civil Engineering & Architect Design
Pre-Calculus	Principles of Ag. Science-Animal	AP Physics	PLTW Computer Integrated Manufacturing
AP Calculus AB	Principles of Ag. Science-Plant	Anatomy & Physiology	PLTW Digital Electronics
AP Calculus BC	Natural Resources & Ecology	Geology	
AP Statistics	Environmental Science Issues	Astronomy	
Earth Science	Food Science & Safety	Meteorology	

Femineers

Robotics

Job Shadows & Internships

Analytical Chemistry Research	Conservation Biology Research
CAD Design	Organic Chemistry Assistant
Chemistry Lab	Wastewater Plant Operations &
Civil & Electrical Engineering	Maintenance Dearn mo

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Venture Academics

Venture Earth Science (Earth Science, College Reading, Venture) Venture Life Science (General Biology, Intro to College Writing, Venture) Venture Environmental Science (AP Environmental Science, Venture)

Experience Pathways

College CTE Courses in High School

Math and Society	
Nutrition	

Human Anatomy I Human Anatomy II

Kirkwood Career Academies

Science Club Math Club

Architectural & Engineering Design (Pre-Apprenticeship)

Adv.Man.with Robotics & Welding Computer Programming & Web Development Pre-Professional Health Careers

Pursuit Pathways

Certificates/Diplomas		Careers & Median	1 Salary Information
Industrial Robotics	Network Security	Civil Engineering	Food Science Technicians
Database Technologies	Network & System Admin.	Technicians	\$46,000
Java Programming	PC Technician	\$50,000	
Mobile App Development	CAD/Mechanical Eng. Tech.		
.NET Programming	Desktop Customer Service		
Healthcare IT Technician	Electromechanical Tech.		

2021-2022 Career Pathway: Science, Technology, Engineering & Math

Associate Degrees

_		
	Advanced Manufacturing & Robotic Tech.	Exercise Science & Wellness
	CAD/Mechanical Engineering Tech.	Industrial Maintenance
	Computer Software Development	Network & System Administration
	Computer Support Specialist	Water Environmental Tech.
	Energy Production & Distribution	

Careers & Median Salary Information

Fuel Cell Technicians \$54,000

Surveying Technicians \$51,000

\$41,500

Chemical Technicians

Bachelor Degrees

Bio Chemistry	Applied Physics
Actuarial Science	Civil Engineering
Seed Science	Industrial Technology
Ag Engineering	Software Engineering
Electrical Engineering	Graphic Technology
Microbiology	Bio Medical Engineering
Physics	Computer Engineering
Geo Science	Management and Information Systems,
Ag and Life Sciences Education	Statistics
Environmental Science	Military Science
Nutritional Science	Business Analytics & Infomation System
Bio Chemistry	Construction Engineering
Technology and Engineering Education	Materials Engineering
Animal Science	Technical Communication
Family & Consumer Science Education	Movement and Exercise Science
Physics	Mortuary Science
Communication Sciences & Disorder	Culinary Food Science
Technology Management	Mathematics
Biological Systems Engineering	Biology
Food Science	Science Education
Political Science	Nuclear Medicine Technology
Computer Science	Dairy Science
Technology	Mechanical Engineering
Chemical Engineering	Chemistry
Industrial Engineering	Social Science
Seed Science	Radiation Sciences
Earth Science	

Careers & Median Salary Information

Chemical Engineers \$88,000

Chemists

\$79,000

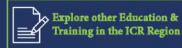
Civil Engineers \$76,000

Marine Engineers \$64,000

Materials Engineers \$75,400

Biochemical Engineers \$71,000







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