2025-2026



Linn-Mar High School Program of Studies

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





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 attended 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 Iowa 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 may be met at any time during 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 December 20 (for testing in January) or March 20 (for testing in April) 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 85 minutes per day) are worth five credits per quarter (9 weeks). Most other courses (which meet for 40 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 of 75%(C) or higher must be earned to receive credit. Grades lower than 75% 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.

Grading

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 is not available to be used to raise a student's grade.

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 to graduate. In addition, the following department requirements must be met to earn a diploma:

- English 40 credits. Must include English I or Advanced English I (10 credits each), English II or Advanced English II (may opt out if student passes Advanced English I with a 90% or higher grade), English III or Advanced English III, and one public speaking (rhetoric/speech/acting/communications) course (5 credits).
- Mathematics 30 credits. 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 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 Physics and Chemistry (10 credits) or Chemistry I (10 credits)), and a physics course (Earth and Space Science (10 credits), Applied Chemistry and Physics (10 credits), Physics I (10 credits), AP Physics 1 (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 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 MOC or 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.

Students may meet graduation requirements through successful completion of a combination of inbuilding, concurrent, alternative concurrent, PSEO, Apex, or Edmentum® offerings.

Fully online students may use Edmentum® coursework to meet LMCSD established graduation requirements. Students NOT fully online may not use Edmentum® coursework to meet Health I, Personal Finance, Government, or other core graduation requirements without administrative approval.

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. Priority Standard proficiency scales define increasingly complex levels of performance mastery and provide the basis for evaluation of student knowledge and skill. The Standard Proficiency Scale used by Linn-Mar High School progresses from Level 1 (Beginning) to Level 4 (Exemplary). A mark of MIS or RR (Missing or Reassessment Required) 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 or demonstration of creative application of skills - use of information to solve problems in a different context - demonstration of unique insight or complex understanding - use of advanced analysis skills	
3.5		In addition to score 3.0 performance, uses in-depth inferences and application with partial success.	
3	Proficient	Student can independently use, apply, and/or demonstrate the standard but may include errors that do not 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.	
MIS	Missing	Required evidence of learning has not yet been submitted.	
RR	Reassessment Required	Student has not yet met Level 1.0 proficiency requirements.	

Proficiency Scale Conversion

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

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 four-year academic plan for each student. The LMHS testing plan is designed to comply with lowa 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) (select)
- PSAT: Pre-SAT (optional) ** fee required
- PreACT (optional) ** fee required

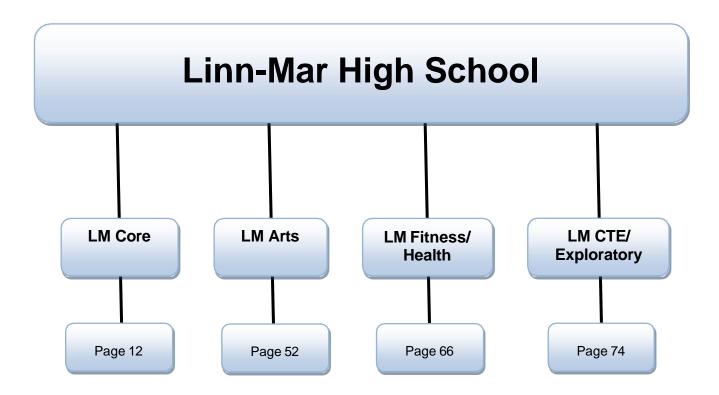
11th Grade

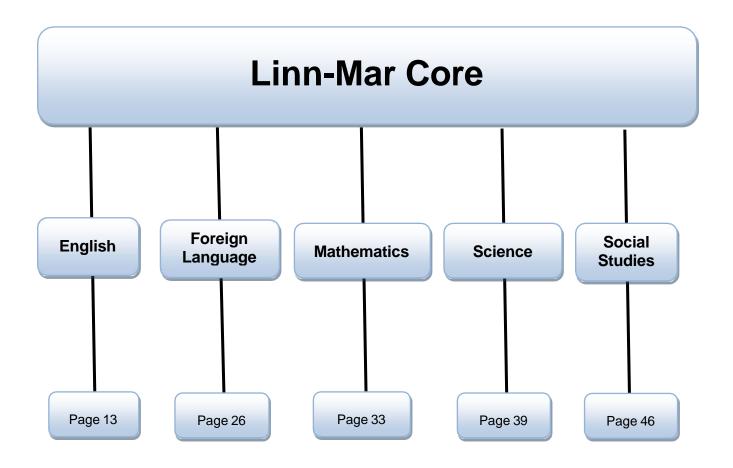
- Iowa Statewide Assessment of Student Progress (ISASP) (required)
- ASVAB military career inventory (optional)
- ACT (optional) ** fee required
- SAT (optional) ** fee required
- PSAT: Pre-SAT/National Merit Scholarship Qualifying Test (optional) ** fee required

12th Grade

- ACT (optional) ** fee required
- SAT (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.

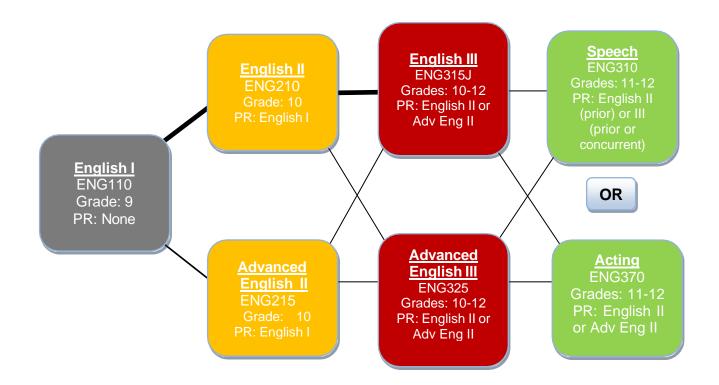




English

English I Path

PR=Prerequisite Requirement



Venture Creative Writing Strand

ENG702 Grade: 10-12, 20 Credits

ENG120 Rhetoric ENG410 Creative Writing ENG702 Venture Creative Writing

English Electives p.15

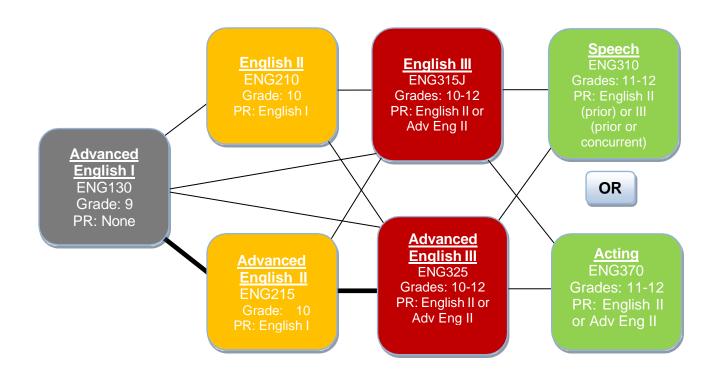
Graduation Requirements

- 40 credits of English (will include at least 1 elective)
- English I or Advanced English I
- English III or Advanced English III
- Speech/Rhetoric/Communications or Acting

English

Advanced English I Path

PR=Prerequisite



Venture Creative Writing Strand

ENG702

Grade: 10-12, 20 Credits

ENG120 Rhetoric

ENG410 Creative Writing

ENG702 Venture Creative Writing

English Electives p.15

Graduation Requirements

- 40 credits of English (will include at least 1 elective)
- English I or Advanced English I
- English III or Advanced English III
- Speech or Acting

English Electives

PR=Prerequisite Requirement

Academic Literacy I

ENG105 Grades: 9-10 PR: Placement

Academic Literacy II

ENG205 Grades: 9-10 PR: Placement

The above courses may be required for individual students

Rhetoric

ENG120 Grades: 9-12 PR: None

<u>Journalism</u>

ENG220 Grades: 10-12 PR: English I or English II

British Literature

ENG340 Grades: 11-12 PR: English II or English Dept. Approval

Classics

ENG350 Grades: 11-12 PR: English II or English Dept. Approval

Multicultural Literature

ENG355 Grades: 10-12 PR: English I or Advanced English I

Contemporary Literature

ENG360 Grades: 10-12 PR: English II or English Dept. Approval

Literature of a Selected Author

ENG380 Grades: 10-12 PR: English II

Creative Writing

ENG410 Grades: 10-12 PR: English I or English II

College Writing

ENG420 Grades: 11-12 PR: English III or Advanced English III

College Grammar

ENG430
Grades: 10-12
PR: English II or English
Dept. Approval

College Reading

ENG450 Grades: 10-12 PR: English II or English Dept. Approval

Composition I

ENG460
Grades: 11-12
PR: English III or
Advanced English III and
qualifying placement score

Composition II

ENG465 Grades: 11-12 PR: Composition I

AP English Literature and Composition

ENG511 & ENG512 Grades: 11-12 PR: English III or Advanced English III

Academic Literacy I

Course #: ENG105 Grade Level: 9-10 Credits: 5

Length: 1 Semester Format: Skinny Prerequisite: approval

<u>Considerations:</u> Students are placed in this course per recommendation of the 8th grade language arts teachers, lowa 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 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 #: ENG110

Grade Level: 9

Credits: 10

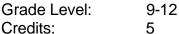
Length: 2 Quarters
Format: Block
Prerequisite: None

Considerations: English I or Advanced English I required for graduation. This course does not meet criteria to allow students to qualify to bypass English II.

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

Rhetoric

Course #: ENG120



Length: 1 Semester Format: SuperBlock

Prerequisite: None

Considerations:

May be used to fulfill the graduation requirement for Speech/Rhetoric/Acting through Venture Academics.

Not offered as a standalone class.

<u>Course Description:</u> 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 I

Course #: ENG130

Grade Level: 9 Credits: 10

Length: 2 Quarters
Format: Block
Prerequisite: None

Considerations: English I or Advanced English I required for graduation. Students earning a 90% or higher in this course may opt to bypass English II. 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.

<u>Course Description:</u> 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.





Academic Literacy II

Course #: ENG205 Grade Level: 9-10 Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: Academic Literacy I or

Instructor approval

<u>Considerations:</u> 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 #: ENG210

Grade Level: 10 Credits: 10

Length: 2 Quarters
Format: Block
Prerequisite: English I or

Advanced English I

<u>Considerations:</u> 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 the following units: short story, novel, poetry, drama, and research. 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 varying viewpoints.

<u>Journalism</u>

Course #: ENG220 Grade Level: 10-12





Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: English II, English III, or

English Department

approval

Considerations: See prerequisite.

<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. <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 Quarters Format: Block

Prerequisite: English I or Advanced

English I

<u>Considerations:</u> 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, House on Mango Street, Shakespeare)

English III

Course #: ENG315J 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
- A Raisin in the Sun

Speech

Course #: ENG310 Grade Level: 11-12

Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: English II (prior) or III (prior

or concurrent)

<u>Considerations:</u> See prerequisite. Speech, Rhetoric, or Acting is required for graduation. Students who have passed English I or Advanced English I with high marks may request English Department approval to register for Speech prior to 11th grade.

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 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 Grade Level: 10-12 Credits: 10

Length: 2 Quarters Format: Block

Prerequisite: 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.

Course Description: 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
- 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 #: ENG340 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: 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 coat-of-arms.

Classics





Course #: ENG350 Grade Level: 11-12 Credits: 5

Length: 1 Quarter Format: Block

Prerequisite:

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 to gain new awareness of themselves and others.

Multicultural Literature

Course #: ENG355
Grade Level: 10-12
Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: English I or Advanced

English I

<u>Considerations:</u> See prerequisites. This course earns elective English credit.

Course Description: As a course, Multicultural Literature seeks to explore, investigate, and reflect on how writers from underrepresented cultural identities and backgrounds express their experiences through narrative, short story, poetry, film, and more. Students will be presented opportunities to ask (and answer) the questions: how is a person's interaction with and experience in the world impacted by their identities? how are these experiences and interactions reflected in and shared through literature?

Contemporary Literature







Course #: ENG360 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, Rhetoric, 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.

<u>Course Description:</u> 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 #: ENG380 Grade Level: 10-12 Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: English II, English III, or

English Department

approval

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

<u>Course Description:</u> 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 #: ENG390 Grade Level: 10-12 Credits: 5

Length: 1 Semester Format: SuperBlock

Prerequisite: English I or Advanced

English I

<u>Considerations:</u> May be used to fulfill the graduation requirement for Speech/Rhetoric/Acting through Venture Academics.

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 #: ENG410 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 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.

Venture Creative Writing Strand

Course #: ENG702 Grade Level: 10-12

Credits:

20 (10 Creative Writing, 5

elective Venture credits, and

5 Rhetoric credits)

Length: Semester

Format: SuperBlock (2 Blocks)
Prerequisite: English II or English
Department approval

<u>Courses:</u> ENG410 (Creative Writing) and ENG120 (Rhetoric). Students that successfully complete both courses will meet speech graduation requirements and earn 5 elective English credits.

Course Description: This course combines the content of ENG410 and ENG120 into a project-based, hands-on, and community-engaged way. Students will learn important skills such as collaboration, communication, creativity, critical thinking, and time management as they complete projects while exploring opportunities to express their personal and community voice. Students will learn from and be mentored by professionals in the community. See page 110 to learn more about the Venture program.

College Writing

Course #: ENG420
Grade Level: 11-12
Credits 5

Length: 1 Quarter Format: Block

Prerequisite: English III or

Adv. English III

<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

Course #: ENG430 Grade Level: 10-12

Grade Level: 10 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 punctuation, and editing written products.







College Reading

Course #: ENG450 Grade Level: 10-12 Credits: 5

Length: 1 Quarter Format: Block Prerequisite: English II

Considerations: See prerequisite.

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

Composition I

Course #: ENG460 or ENG460E

Grade Level: 11-12

Credits: 5 (LM), 3 (KW)

Length: 1 Quarter Format: Block

Prerequisite: English III or

Adv. English III,

2.8 GPA or higher, and ACT

score of 18 or higher.

<u>Considerations:</u> See prerequisites. 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 ENG465E

Grade Level: 11-12

Credits: 5 (LM), 3 (KW)

Length: 1 Quarter Format: Block

Prerequisite: Composition I





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

<u>Course Description:</u> 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.

AP English Literature and Composition

Course #: ENG512 Grade Level: 11-12 Credits: 10

Length: 2 Quarters

Format: Block

Prerequisite: Advanced English III is

strongly recommended

<u>Considerations:</u> 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 exam in May. Review sessions during semester 2 will be provided.

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: Instructor 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 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: Instructor 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: Instructor 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. 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: Instructor 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

Culture I

Course #: ELL100 Grade Level: 9-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Instructor 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 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

Course #: ELL001DS

Grade Level: 9-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Instructor 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 assist students with their other academic classes. Supports provided include help with understanding the expectations and assignments for classes, one-on-one tutoring, and administration of assessments when necessary.

English Language Learners

College Prep

Course #: ELL001CP

Grade Level: 9-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Instructor approval

Considerations: 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' 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-

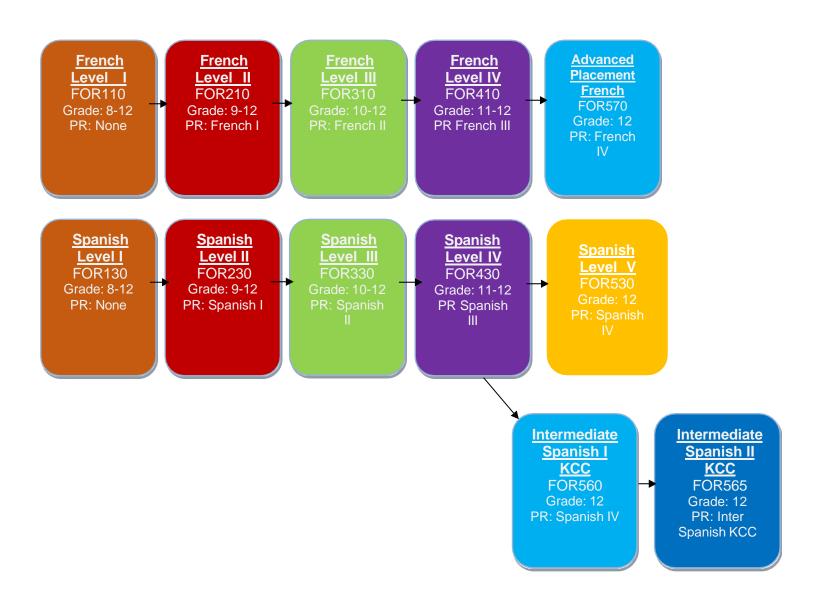
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Prerequisite: Instructor approval

<u>Considerations:</u> 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.

<u>Course Description:</u> 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 #:

FOR110





Grade Level: 8-12 Credits: 10

Length: 1 Semester

Format: Block Prerequisite: None

<u>Considerations:</u> A second term grade of 75% or higher in Level I is required to progress to Level II.

<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. Students are required to speak, listen, read, and write in the target language. The culture focus during French I is Paris.

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, -re, and -ir verbs, and irregular verbs avoir, etre, faire, aller, venir as well as stem changing verbs acheter and preferer and the -re and -group of verbs. Students also learn possessive adjectives and the near future.

Level I Spanish





Course #: FOR130 Grade Level: 8-12 Credits: 10

Length: 1 or 2 Semester(s)
Format: Block or Skinny

Prerequisite: None

<u>Considerations:</u> A second term grade of 75% or higher in Level I is required to progress to Level II.

<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. Students are required to speak, listen, read, and write in the target language.

Topics include school schedules and subjects, likes and dislikes, location and directional words, food and beverages, and pastimes. Grammar concepts include adjectives and agreement, me gusta, present tense ar, er, ir verbs, and irregular verbs estar, ser, and ir.

Level II French







Course #: FOR210 Grade Level: 9-12 Credits: 10

Length: 1 Semester

Format: Block

Prerequisite: French I

<u>Considerations:</u> Second term grade of 75% 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. Students are required to speak, listen, read, and write in the target language. The culture focus is regions in France.

Topics include eating in a café, clothing and shopping, household chores and parts of the house, shops and stores, and travel. Additional culture units include provinces of France and music. Grammar concepts include passé composé, demonstrative adjectives, interrogative adjectives, the partitive, and prepositions with places. New verbs are mettre, boire, voir, prendre, savoir, connaître, dormir, partir, sortir, vouloir, and pouvoir. Student also learn command forms.

Level II Spanish





Course #: FOR230 Grade Level: 9-12 Credits: 10

Length: 1 or 2 Semester(s)
Format: Block or Skinny

Prerequisite: Spanish I

<u>Considerations:</u> Second term grade of 75% 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. Students are required to speak, listen, read, and write in the target language.

Topics include families, parties, rooms and household tasks, clothing, and shopping.

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





Level III French

Course #: FOR310 Grade Level: 10-12 Credits: 10

Length: 1 Semester

Format: Block Prerequisite: French II

<u>Considerations:</u> Second term grade of 75% 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. Students are required to speak, listen, read, and write in the target language. The culture focus in French 3 is the Francophone world.

Topics include expansion on prior topics and prior preparation and francophone holidays, cuisine, school technology, morning routine, childhood memories and activities. Grammar topics addressed are direct and indirect object pronouns as well as y and en, extension of passé composé and learning of the imperfect tense, negative expressions, reflexive verbs, and comparative adjectives. Students should be able to use the near future, present tense and both past tenses. Students begin to write more extensive and styles of communication in French.

BOARD OF





Level III Spanish

Course #: FOR330
Grade Level: 10-12
Credits: 10

Length: 1 or 2 Semester(s)
Format: Block or Skinny

Prerequisite: Spanish II

<u>Considerations:</u> Second term grade of 75% 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. Students are required to speak, listen, read, and write in the target language.

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

Linn-Mar Program of Studies

Level IV French









Length: 1 Semester

Format: Block Prerequisite: French III

<u>Considerations:</u> Second term grade of 75% or higher in Level III is required.

Course Description: 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. Students are required to speak, listen, read, and write in the target language. The culture focus in French 4 is the Francophone world and current events to help prepare for AP French.

Topics include camping and nature, fitness and health, professions, travel plans, movies and reading. Grammar concepts include the future, the conditional and subjunctive verb tenses, demonstrative, interrogative and possessive pronouns. Present participles and relative pronouns are also learned.

Level IV Spanish

Credits:







Course #: FOR430 Grade Level: 11-12

Length: 1 or 2 Semester(s)
Format: Block or Skinny
Prerequisite: Spanish III

10

<u>Considerations:</u> Grade of 75% or higher for second term in Level III is required.

Course Description: 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. Students are required to speak, listen, read, and write in the target language.

Topics include childhood, 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, commands, and future.

Advanced Placement French

Course #: FOR570

Grade Level: 12 Credits: 10

Length: 1 Semester

Format: Block Prerequisite: French IV

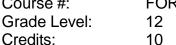
<u>Considerations:</u> See prerequisite. Class is conducted in French.

Course Description: AP French Language and Culture is equivalent to an intermediate level college course in French. Students cultivate their understanding of French language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations. This course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in French. students will engage in an exploration of culture in both contemporary and historical contexts. It develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions), practices (patterns of social interactions with a culture), and perspectives (values, attitudes, and assumptions).

Units of studies include: family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.

Level V Spanish

Course #: FOR530



Length: 1 Semester

Format: Block

Prerequisite: Spanish IV

<u>Considerations:</u> Second term grade of 75% or higher in Level IV is required.

Course Description: 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. Students are required to speak, listen, read, and write in the target language.

Topics include visiting an airport, planning a trip and traveling to a foreign country, staying in a hotel, and discussing professions and making plans for the future. The course utilizes podcasts and television series to improve listening comprehension. Time permitting, an art unit and the teaching Spanish to elementary and preschool classes are possibilities.

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

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



Linn-Mar Program of Studies

Intermediate Spanish I KCC







Course #: FOR560 Grade Level: 12

Credits: 5 (LM), 4 (KW) Length: 1 Quarter

Length: 1 Quarte Format: Block

Prerequisite: 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 are required to speak, listen, read, and write in the target language. 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, and textbook activities outside of class.

Intermediate Spanish II KCC







Course #: FOR565

Grade Level: 12

Credits: 5 (LM), 4 (KW)
Length: 1 Quarter
Format: Block

Prerequisite: 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, and textbook activities outside of class.

Mathematics Graduation Requirements 30 Credits Mathematics Must include Algebra 1 OR Algebra 1A and Algebra 1B Pre-Algebra MAT115 Grade: 9-12 Algebra 1A Algebra 1B MAT150 Grade: 9-11 MAT155 Grade: 10-12 PR: Algebra PR: Algebra 1A Foundations or or Approval Math 8 Algebra 1 Algebra 2 **Pre-Calculus** Geometry MAT170 MAT315 MAT420 Grade: 9-12 Grade: 9-12 Grade: 9-12 PR: Algebra PR: Geometry PR: Algebra 2B or Foundations or Algebra 2 Math 8 Advanced Placement Advanced Placement **Mathematics and Probability & Statistics Society KCC** Calculus (BC) Calculus (AB) MAT415 <u>1 & 2</u> MAT511 & **MAT330** MAT510 Grade: 12 Grade: 10-12 PR: 3 Years of High School Math PR: Pre-Calculus MAT512 Grade: 10-12 PR: Pre-Calculus **Advanced** Placement Statistics MAT530 Grade: 10-12 PR: Algebra 2

Pre-Algebra

Course #: MAT115 Grade Level: 9-12 Credits: 10

Length: 2 Semesters

Format: Skinny Prerequisite: none Subsequent: Algebra

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

Course Description: 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 1A

Course #: **MAT150** 9-11 Grade Level: Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Algebra Foundations, Pre-

Algebra, or Math 8

Algebra 1B Subsequent:

Considerations: Students are placed in this course per approval of the math department based on Math 8 or Algebra Foundations performance. A scientific calculator or equivalent is required. 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 #: **MAT155** Grade Level: 10-12 Credits: 10

2 Semesters Length: Format: Skinny Prerequisite: Algebra 1A

Subsequent: 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. 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 #: **MAT170** Grade Level: 9-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Pre-Algebra, Math 8, or

Algebra Foundations

Subsequent: Geometry

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.

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

<u>Considerations:</u> Students are placed into this course by recommendation of a mathematics teacher or school counselor. This course is designed for students who need extra support with the core concepts of Geometry.

<u>Course Description:</u> 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 2 Priority Standards

Course #: MAT290PS

Grade Level: 9-12 Credits: 2.5

Length: 1 Quarter Format: Skinny

Prerequisite: Teacher and/or Counselor

recommendation,

concurrent enrollment in

Algebra 2

<u>Considerations:</u> Students are placed into this course by recommendation of a mathematics teacher or school counselor. This course is designed for students who need extra support with the core concepts of Algebra 2.

Course Description: This course develops mathematical skills focused on the priority standards of Algebra 2. These topics include equations, inequalities, linear functions and relations, systems of equations and inequalities, quadratic functions and relations, polynomials, inverse functions and relations, radical functions and relations, exponential functions and relations, logarithmic functions and relations, and rational functions and relations, sequences and series, trigonometry functions, trigonometry identities, and trigonometry equations.

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

Course #: MAT220 Grade Level: 9-12 Credits: 10





Length: 2 Semesters

Format: Skinny

Prerequisite: Algebra 1 or Algebra 1B Subsequent: Algebra 2 or Mathematics

& Society

Considerations: A scientific calculator is required.

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.

Algebra 2

Credits:

Course #: MAT315 Grade Level: 9-12





2 Semesters Length:

Format: Skinny Prerequisite: Geometry

Subsequent: Pre-Calculus (recommended)

10

or Mathematics & Society

or AP Statistics

Considerations: 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, inverse functions and relations, radical functions and relations, exponential functions and relations, logarithmic functions and relations, and rational functions and relations, sequences and series, trigonometry functions, trigonometry identities, and trigonometry equations. This course fulfills minimum requirement for entry into most regent universities.

Probability and Statistics





Course #: **MAT330** Grade Level: 10-12 Credits:

Length: 1 Semester Format: Skinny

Algebra 2 Prerequisite:

Considerations: Graphing calculators are

required.

Course Description: This course is intended to develop statistical literacy and thinking by developing skills to interpret results, write explanations, find patterns, and make decisions. Included are units on data classification, frequency distribution and their graphs, and measures of central tendency.

Linn-Mar Program of Studies

Pre-Calculus

Course #: MAT420

Grade Level: 9-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Algebra 2B or

Algebra 2

Subsequent: AP Calculus (recommended)

or Mathematics & Society

or AP Statistics

<u>Considerations:</u> Graphing calculator is required. Tl89 and Tl-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 Calculus (AB)





Course #: MAT510
Grade Level: 10-12
Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Pre-Calculus

<u>Considerations:</u> Students may take the AP Calculus exam in May. Graphing calculator is required. Tl84 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 will 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 & 2







Course #: MAT511 & MAT512

Grade Level: 10-12 Credits: 15

Length: 2 Semesters

Format: Skinny, 1st semester

Block, 2nd semester

Prerequisite: Pre-Calculus

<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.

<u>Course Description:</u> 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 2

Subsequent: Mathematics & Society

or AP Calculus

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

<u>Course Description:</u> 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





Prerequisite: Three years of High

School math

<u>Considerations:</u> See prerequisite. This is a dual-credit 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

(https://www.kirkwood.edu/placement). 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: https://www.kirkwood.edu/testcenter.

<u>Course Description:</u> 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.



Science

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

Earth Science

Earth Science SCI125 Grade: 9

PR: None

Physics

Chemistry

Applied Physics and Chemistry SCI360

Grade: 10-12 PR: Algebra

Earth & Space Science

SCI340 Grade: 10-12 PR: Algebra

AP Environmental Science 1&2

SCI541 & SCI542 Grade: 10-12 PR: General Biology, Algebra

Venture Earth Science SCI125 SCI701, ENG120

Grade: 9-10 PR: None

Physics I

SCI350 Grade: 10-12 PR: Algebra I

AP Physics

1 and/or 2 SCI531 or

SCI533 Grade: 10-12 PR: Chemistry I and Algebra 2

AP Physics

C: Mechanics or AP Physics

C: E & M

SCI534 or SCI535 Grade: 10-12 PR: AP Calculus AB or BC, Taken or Concurrent

Chemistry I

SCI320 Grade: 9-12 PR: Algebra

Life Science

General Biology

SCI210 Grade: 9-10 PR: None

AP Biology 1&2

SCI511 & SCI512 Grade: 10-12 PR: General Biology, Chem I

Venture Biology

SCI210, SCI702, ENG120 Grade: 9-12

PR: None

Science Electives

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

Earth Science

Astronomy
SCI390
Grade: 11-12
PR: Geometry
and ACP or
Chemistry I

Chemistry

AP Chemistry

1&2

SCI521 &

SCI522

Grade: 10-12

PR: Algebra &

Chemistry 1

Life Science

Anatomy & Physiology SCI410 Grade: 10-12 PR: General Biology

Bioethics SCI370 Grade: 10-12 PR: General Biology

Integrated Sciences

CASE
Curriculum for
Agricultural
Science
Education
See
pp 75-80

PLTW
Project Lead
the Way
See
pp 102-106

Earth Science





SCI125 Course #: Grade Level: 9-10 Credits: 10

2 Quarters Length:

Format: Block Prerequisite: None

Considerations: Earth Science 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.

Venture Earth Science Strand





SCI701 Grade Level: 9-10

Credits: 20 (10 Earth, 5 Rhetoric, 5

Elective Venture credits)

Length: Semester

Format: SuperBlock (2 Blocks)

Prerequisite: None

Considerations:

Course #:

Students are expected to collaborate on projects with their peers on a daily basis. Due to the nature of this course as a Venture class, regular attendance is important for student success.

Courses: SCI125 and ENG120. Students that successfully complete both courses will meet earth science and speech graduation requirements.

Course Description: Course Description: This course covers the same standards as SCI125 in a project-based and community-focused way. Students will learn and use important skills such as collaboration, communication, creativity, critical thinking, and time management as they complete projects. See page 110 to learn more about the Venture program.

General Biology





Course #: **SCI210** Grade Level: 9-12 Credits: 10

2 Quarters Length: Format: Block Prerequisite: 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. Strong vocabulary, reading, and study skills are important to success.

Course Description: This course is designed as a survey class in life science. The themes investigated are: Homeostasis; Heredity; Biological Evolution; and Ecosystems.

Venture Biology





Course #: SCI702 Grade Level: 9-12

Credits: 20 (10 Bio, 5 Rhetoric, 5

Elective Venture credits)

Length: Semester

Format: SuperBlock (2 Blocks)

Prerequisite: none

Considerations: Students are expected to collaborate on projects with their peers on a daily basis. Due to the nature of this course as a Venture class, regular attendance is important for student success.

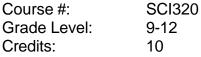
Courses: SCI210 and ENG120. Students that successfully complete both courses will meet life science and speech graduation requirements.

Course Description: This course covers the same standards as SCI210 in a project-based. community-focused way. Students will learn from and be mentored by professionals in the community. Students will learn and use important skills such as collaboration, communication, creativity, critical thinking, and time management as they complete projects. See page 110 to learn more about the Venture program.

Chemistry I







2 Quarters Length: Format: Block Prerequisite: 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 expected for students wishing to take AP Chemistry, AP Biology or AP Environmental Science.

Course Description: 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.

Earth and Space Science





Course #: SCI340 Grade Level: 10-12 Credits: 10

2 Quarters Length: Format: Block Prerequisite: Algebra

Considerations: Both the physics and Earth science standards are met with the successful completion of this course. 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, 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 #: SCI350 Grade Level: 10-12 Credits: 10

2 Quarters Length: Format: Block Prerequisite: Algebra 1

Considerations: 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. Physics 1 is NOT a prerequisite for AP Physics 1.

Course Description: Physics is the study of the natural physical world. Topics include motion. forces, energy, momentum, collisions, circular motion, gravity, electromagnetism, waves, sound, and light. Physics I is a full semester course that covers these topics in more depth than Applied Physics & Chemistry or Earth & Space science, but in less depth than AP Physics.

Applied Physics and Chemistry







Course #: SCI360 Grade Level: 10-12 Credits: 10

Length: 2 Quarters Format: Block Prerequisite: Algebra

Considerations: Applied Physics and Chemistry is based on the completion of NGSS Physical Science Standards and successful completion will meet the physical science graduation requirement. This course is intended for students planning to enter a variety of non-STEM careers. 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, waves, and light.

Bioethics

Course #: SCI370 Grade Level: 10-12





Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: General Biology

Considerations: Bioethics is a science elective course. Students taking this course must have completed General Biology. Oral discussion is a primary focus of this course in addition to research, writing, and reading.

Course Description: 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.

Astronomy

Credits:

Course #: SCI390 Grade Level:









Length: 1 Quarter Format: Block

Prerequisite: Geometry and Applied

Physics and Chemistry or

Chemistry I

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

Anatomy & Physiology







Course #: SCI410 Grade Level: 10-12

Credits: 10 2 Quarters Length:

Format: Block

Prerequisite: General Biology

Considerations: 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 & 2







Course #: SCI511 & SCI512

Grade Level: 10-12 Credits: 15

Length: 3 Quarters Format: Block

Chemistry I and General Prerequisite:

Biology (or instructor

approval)

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. 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 #: SCI521 & SCI522

Grade Level: 10-12 Credits: 15

Length: 3 Quarters

Format: Block

Prerequisite: Chemistry I and Algebra 2

Considerations: Students MUST sign up for both sections listed above. Students taking this course should have completed Chemistry I and Algebra 2. Students may take the Chemistry AP exam in May.

Course Description: 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





Course #: SCI531 Grade Level: 10-12 Credits: 10

Length: 2 Quarters (spring

semester)

Format: Block

Chemistry I and Algebra 2 Prerequisite:

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. Physics I is NOT a prerequisite for this class. See prerequisites. Students may take the AP Physics 1 exam in May.

Course Description: 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, momentum, rotational motion, and fluids.

Advanced Placement Physics 1 & 2

Course #: SCI533 Grade Level: 10-12 Credits: 20







4 Quarters Length: Format: Block

Chemistry I AND Algebra 2 Prerequisite:

Considerations: Students may take the AP Physics 1 and 2 exams in May.

Course Description: This course covers all content from SCI531 AP Physics I and adds to it the content of College Physics II. Students taking this course should have a strong interest in the practical applications of mathematics to real-life scenarios. Additional areas of emphasis include experimental design, thermodynamics, optics, electric circuits, magnetism, and modern physics.

Advanced Placement Physics C: Mechanics

Course #: SCI534 Grade Level: 10-12 Credits: 10





Length: 2 Quarters Format: Block

Prerequisite: AP Calculus AB or BC.

Taken or Concurrent

Considerations: See prerequisite. Students taking this course should have a strong interest in the practical applications of mathematics. Students may take the AP Physics C: Mechanics exam in May, AP Physics C: Mechanics is suggested for student pursuing a physics or engineering degree. This course will be offered when the start of the school year ends in an odd calendar number. AP Physics C: Mechanics alternates years with AP Physics C: E & M.

Course Description: AP Physics C: Mechanics is a calculus-based introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work. Students build their understanding of kinematics, dynamics, work, energy, momentum, oscillations, and rotational motion.

Advanced Placement Physics C: E & M

Course #: SCI535
Grade Level: 10-12
Credits: 10



Length: 2 Quarters
Format: Block

Prerequisite: AP Calculus AB or BC,

Taken or Concurrent

Considerations: See prerequisite. Students taking this course should have a strong interest in the practical applications of mathematics. Students may take the AP Physics C: E & M exam in May. AP Physics C: E & M is suggested for students pursuing a physics or engineering degree. This course will be offered when the start of the school year ends in an even calendar number. AP Physics C: E & M alternates years with AP Physics C: Mechanics.

<u>Course Description:</u> AP Physics C: E & M is a calculus-based introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work. Students build their understanding of electric charge, field, potential, and circuits as well as magnetic fields, and electromagnetic induction.

Advanced Placement Environmental Science 1 & 2

Course #: SCI541 & SCI542 Grade Level: 10-12

Grade Level: 10-12 Credits: 15

Length: 3 Quarters
Format: Block

Prerequisite: General Biology, Algebra,

and Chemistry

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 taking this course should 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 Education and PLTW sections.

OR

Social Studies

PR = Prerequisite Requirement

OR

OR

Electives

US History 9 SOC110

Grade: 9-12 PR: None

Advanced US History 9 SOC130

Grade: 9-12 PR: None

AP US History 1 & 2

SOC521 & SOC522

Grade: 9-12

Current Events

SOC150

Grade: 9-12 PR: None

World History SOC270

Grade: 10-12 PR: None

AP World History 1 & 2

SOC541 & SOC542 Grade: 10-12

Law and the Constitution

SOC320 Grade: 10-12 PR: None

Economics SOC310

Grade: 11-12 PR: None

Sociology SOC330

Grade: 11-12 PR: None

Introductory **Psychology**

SOC340 Grade: 11-12 PR: None

AP Psychology

1 & 2 SOC530

Grade: 11-12 PR: Intro Psychology or Approval

Government

SOC400

OR

OR

AP American Government SOC500

State and Local Government SOC390

Grade: 11-12 PR: None

Venture Civics

SOC390. SOC400, SOC701, **ENG120** Grade: 11-12 PR: None

<u>Venture</u> **Behavioral**

Science SOC330, SOC340,

SOC702, **ENG120**

Grade: 11-12

PR: None

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 #: SOC110

Grade Level: 9 Credits: 10

Length: 2 Quarters

Format: Block Prerequisite: 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 #: SOC130

Grade Level: 9 Credits: 10

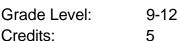
Length: 2 Quarters
Format: Block
Prerequisite: None

<u>Considerations:</u> 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, and 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.

Current Events

Course #: SOC150



Length: 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> Students will be reading articles, analyzing sources, and using web-based applications.

<u>Course Description:</u> Current Events promotes critical thinking skills to empower students to make independent judgments and informed decisions in response to information conveyed through the channels of mass communication.

World History

Course #: SOC270
Grade Level: 10-12
Credits: 10

Length: 2 Quarters
Format: Block
Prerequisite: None

<u>Considerations:</u> See prerequisites. World History OR AP World History is required for graduation.

<u>Course Description:</u> 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.









Linn-Mar Program of Studies

Economics

Course #: SOC310 Grade Level: 11-12

Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> Students should be comfortable working with charts and tables.

<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).

Law and the Constitution

Course #: SOC320
Grade Level: 10-12
Credits: 5

Length: 1 Quarter Format: Block Prerequisite: none

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

<u>Course Description:</u> 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 lowa court system, the lowa Code, and the functions of the courts by experiencing a mock trial.

Sociology

Course #: SOC330

Grade Level: 11-12 Credits: 5

Length: 1 Quarter Format: Block Prerequisite: 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 Grade Level: 11-12

Credits: 5

Length: 1 Quarter Format: Block Prerequisite: none

<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 classroom to be successful.

<u>Course Description:</u> 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.

State & Local Government

SOC390 Course #: Grade Level:

11-12





Credits: 5

1 Semester Length:

Format: SuperBlock (2 Blocks)

Prerequisite:

Considerations:

This course is for elective credit in Social Studies. Not offered as a standalone class.

Course Description: This course is designed for Venture Academics. Students will discover the structures and actions of both state and local (school boards, city councils and county supervisors) governments through hands-on opportunities with local government representatives.







Government

Course #: SOC400 or SOC401E

Grade Level: 12 Credits: 5

1 Quarter Length: Format: Block Prerequisite: none

Considerations: Government or AP American Government is required for graduation.

Course Description: 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.

Venture Civics Strand

Course #: SOC701







Grade Level: 11-12

Credits: 20 (5 US Gov, 5 Local

Gov, 5 Rhetoric, 5 Elective

Venture credits)

Length: Semester

Format: SuperBlock (2 Blocks)

Prerequisite: none

Courses: SOC390, SOC400, and ENG120. Students that successful complete all courses will meet government and speech graduation requirements.

Course Description: This course covers the same content as SOC390 & SOC400 in a project-based, hands-on, community-engaged way. Students will learn from and be mentored by professionals in the community. Students will learn important skills such as collaboration, communication, creativity, critical thinking, and time management as they complete projects. See page 110 to learn more about the Venture program.

Venture Behavioral Science Strand

Course #: SOC702

Grade Level: 11-12

Credits:

20 (5 Psych, 5 Sociology,

5 Rhetoric, 5 Elective

Venture credits)

Length: Semester

Format: SuperBlock (2 Blocks)

Prerequisite: none

Courses: SOC330, SOC340, and ENG120. Students that successful complete all courses will meet behavioral science and speech graduation requirements.

Course Description: This course covers the same content as SOC330 & SOC340 in a project-based. hands-on, community-engaged way. Students will learn from and be mentored by professionals in the community. Students will learn important skills such as collaboration, communication, creativity, critical thinking, and time management as they complete projects. See page 110 to learn more about the Venture program.

Advanced Placement American Government





Course #: SOC500

Grade Level: 11-12 or approval

Credits: 10

Length: 2 Quarters during

second semester

Format: Block Prerequisite: none

<u>Considerations:</u> Instructor approval for 10th 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 US History 1 & 2





Course #: SOC521 & SOC522

Grade Level: 9-12 Credits: 15

Length: 3 Quarters Format: Block

Prerequisite: US History 9 OR

Advanced US History 9 is

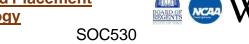
recommended

<u>Considerations:</u> Instructor approval for 9th 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



Course #: Grade Level: 11-12 Credits: 10

Length: 2 Quarters Format: Block

Prerequisite: Introductory 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 national AP Psychology exam in May.

Course Description: Areas studied are inclusive of the research and application to the national standards set forth by the APA and College Board. These include the content of the psychology pillars of biology cognition, development, social and personality, and mental and physical health. College level work is expected, as this is a college level course.

Advanced Placement World History 1 & 2





Course #: SOC541 & SOC542

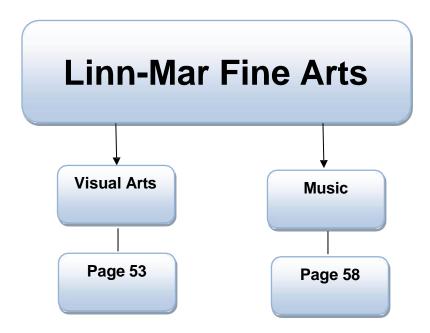
Grade Level: 10-12 Credits: 15

Length: 3 Quarters

Format: 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.

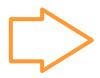


Visual Arts Program of Studies



Entry Level

Art Exploration



Intermediate

2D Mixed Media ART235 Grade: 10-12 PR: Art Exploration



Advanced Levels

3D Mixed Media ART145 Grade: 10-12 PR: Art Exploration

Beginning Ceramics

PR: None



Construction in Clay

ART225 Grade: 10-12 PR: Beg. Ceramics

Exploring Ceramic Techniques ART325

Grade: 10-12 PR: Beg. Ceramics Recommended: Construction in Clay

Beginning Drawing



Expressive Drawing

ART215 Grade: 10-12 PR: Beg. Drawing

Drawing in Style

ART 315 Grade: 10-12 PR: Beg. Drawing Recommended: Expressive Drawing

Beginning Graphics ART410

PR: None



Graphics Two ART420

Grade: 10-12 PR: Beginning Graphics

Digital Photography

ART400 Grade: 10-12 PR: None Recommended: Art Exploration

Grade: 9-12



Venture Digital Design and Communication

ART701 Grade: 10-12, 20 Credits ART400, ART420, ART450, ART701 PR: Beginning Graphics

Beginning Painting

ART135

Advanced Art

ART450 Grade: 11-12 PR: Must have 3 Prior Art Courses

PR: Prerequisite Requirement

Art Exploration

Course #: ART110
Grade Level: 9-12
Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> This course is an introductory art course which is **highly recommended** before taking any art course.

Course Description: This course 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 artwork through direct application of the elements and principals. Students will develop technical skills using a variety of mediums including computer-generated images.

2-D Mixed Media

Course #: ART235 Grade Level: 10-12 Credits: 5

Length 1 Quarter Format: Block

Prerequisite: Art Exploration

<u>Considerations:</u> Art Exploration is required before taking this course.

<u>Course Description:</u> Students will continue to develop the skills learned in Art Exploration 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 artwork.

3-D Mixed Media

Course #: ART145 Grade Level: 10-12 Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: Art Exploration

<u>Considerations:</u> Art Exploration is required before taking this class. This course will involve written work as well as artwork 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 and artists.

Beginning Ceramics

Course #: ART125 Grade Level: 9-12 Credits: 5

Length 1 Quarter
Format Block
Prerequisite: None

<u>Considerations:</u> Art Exploration is strongly recommended before taking this course. Students may need to spend extra time in the studio to complete all the required course work. This class is for motivated students who like to be hands-on in class.

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 basic clay 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.

Construction in Clay

Course #: ART225 Grade Level: 10-12 Credit Hours: 5

Length: 1 Quarter Format: Block

Prerequisite: Beginning Ceramics

<u>Considerations:</u> This class is for the more serious ceramic student. More in-depth work on the wheel is required as well as continuing work on hand building skills.

<u>Course Description:</u> 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, cylinders, and lidded pieces. Students will use clay as an expressive medium to communicate ideas, feelings, thoughts, emotions, and moods in their work.

Exploring Ceramic Techniques

Course #: ART325
Grade Level: 10-12
Credits: 5

Length: 1Quarter Format: Block

Prerequisite: Beginning Ceramics

Construction in Clay Highly Recommended

<u>Considerations:</u> Construction in Clay is **highly** recommended before taking 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 requires the production of wheel throwing portfolio. Students will also select different hand-building techniques to communicate visual ideas. This class allows for deeper exploration of ceramic techniques, glazing and alternative firings. Course emphasis on individual expression; experimentation with glazes, clay bodies, and kiln firing.

Beginning Drawing

Course #: ART115
Grade Level: 9-12
Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: None, Art Exploration Highly

Recommended but not

required.

Considerations: This course is for the student that wants to improve their drawing skills.

<u>Course Description:</u> Students will learn and practice a variety of drawing skills that can be implemented in drawing comics and illustrations for graphic novels. Linear perspective, contour drawing, shading/rendering skills will also be taught. Emphasis will be placed on tone, line, value, and proportion. The works of other artists, past and present, will be studied.

Expressive Drawing

Course #: ART215
Grade Level: 10-12
Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: Beginning Drawing

<u>Considerations:</u> Students will draw everyday developing ideas, revising compositions, and creating projects. Students will participate in discussions regarding their own artwork as well as other artists' work.

<u>Course Description:</u> 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.

Drawing In Style

Course #: ART315 Grade Level: 10 -12 Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: Beginning Drawing

Expressive Drawing Highly

Recommended but not

required

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

<u>Course Description:</u> 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 artists, past and present, will be studied.

Beginning Graphics

Course # ART410
Grade Level: 9 -12
Credits: 5

Length 1 Quarter Format Block Prerequisite None

<u>Considerations:</u> This course is heavily dependent on students learning and applying their knowledge of Adobe Illustrator. This course will strengthen students' digital skill sets empowering them to creatively navigate the visual world they live in.

<u>Course Description:</u> Interested in experiencing the world through the eyes of a graphic designer? Beginning Graphics is the perfect class for students who want to express their creativity using Adobe Illustrator. Apply your newfound skill sets to relevant project-based work such as logo design, branding, advertising, digital illustration, and app/game design to name a few. Take your digital literacy to the next level while fostering 21st century skills such as critical thinking, complex communication, and collaboration.

Graphics Two

Course # ART420 Grade Level: 10-12 Credits: 5

Length 1 Quarter Format Block

Prerequisite Beginning Graphics

<u>Considerations:</u> 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 Two continues to push the boundaries of design with in-depth rigorous approaches utilizing the skills learned in Beginning Graphics. 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.

Digital Photography

Course #: ART400 Grade Level: 10-12 Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> Digital Photography is designed to help students improve image composition, camera know-how, and overall use of Adobe Photoshop.

Course Description: This course teaches students the fundamentals of photography including basic workings of a digital camera, elements of composition, proper lighting, and using Adobe Photoshop to edit and enhance images. Students will engage in various projects ranging from fine arts applications to real-world applications. Class reflections and presentations are a critical part of growing your digital photography tool belt. Digital photography will change the way you see the world!

Advanced Art

Course #: ART450 Grade Level: 11-12 Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: 3 or more Art Classes

Considerations: 11th and 12th grade students only

<u>Course Description:</u> 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 problemsolving. They will explore selected ideas and media in depth in their development as beginning artist.

Beginning Painting

Course #: ART135 Grade Level: 9-12 Credits: 5

Length 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> Taking **Art Exploration** is Highly Recommended

<u>Course Description:</u> Students will be introduced to a variety of water-based paints: watercolor, 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.

<u>Venture Digital Design and Communication</u> Strand

Course #: ART701 Grade Level: 10-12

Credits: 20 (5 Digital Photography,

5 Graphics Two, 5

Advanced Art, 5 Elective

Venture credits)

Length: Semester

Format: Superblock (2 Blocks)
Prerequisite: Beginning Graphics

<u>Considerations:</u> Beginning Graphics is required before taking this course.

Courses: ART400, ART420, and ART450.

Course Description: Ready to take your design skills to a professional level? Digital Design is a project-based class where students partner with local businesses in need of graphic design work. Students will refine important skill sets such as collaboration, communication, creativity, critical thinking, and time management as they complete projects utilizing a superblock format. Additionally, this is a great course to build your design portfolio as you experience various design career pathways. See page 110 to learn more about the Venture program! Digital Design covers the same content as ART400, ART420, and ART450.

Music

PR=Prerequisite Requirement

Linn-Mar High School Band Program

Concert Band

MUS110
Grade: 9
PR: 8th Grade Band
OR Instructor
Approval

Symphony Band

MUS150A Grade: 9-11 PR: Instructor Approval

Symphonic Winds

MUS150B Grade: 10-12 PR: Instructor Approval

Wind Symphony

MUS200C Grade: 10-12 PR: Instructor Approval

Wind Ensemble

MUS200A Grade: 10-12 PR: Instructor Approval

Marching Band

MUS280 Grade: 10-12 (9th Grade by Audition) PR: None

AP Music Theory

MUS500 Grade: 10--12 PR: Instructor Recommendation

Music

PR=Prerequisite Requirement

<u>Linn-Mar High School</u> <u>Choral Program</u>

Fortis MUS120A Grade: 9-12 PR: Instructor Approval

Lux MUS120B Grade: 9-12 PR: Instructor Approval Chamber Singers MUS210A

Grade: 10-12
PR: Instructor Approval

Linn-Mar Singers

MUS210AA Grade: 10-12 PR: Instructor Approval

> Concert Chorale MUS210B

Grade: 10-12 PR: Instructor Approval

> Bella Voce MUS210D

Grade: 10-12 PR: Instructor Approval

> Cantemus MUS210E

Grade: 10-12 PR: Instructor Approval AP Music
Theory

MUS500 Grade: 10--12 PR: Instructor Recommendation

Music

PR=Prerequisite Requirement

Linn-Mar High School Orchestra Program

Concert Orchestra

MUS230-1

Grade: 9-11

PR: Instructor Placement

Sinfonietta

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 Recommendation

Concert Band

Course #: MUS110

Grade Level: 9 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: 8th grade band OR

instructor approval

<u>Fees:</u> \$50 rental fee for percussionists and \$55 rental if using a school wind instrument.

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

<u>Course Description:</u> 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: \$50 rental fee for percussionists and \$55 rental if using a school wind instrument.

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

<u>Course Description:</u> 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

<u>Fees:</u> \$50 rental fee for percussionists and \$55 rental if using a school wind instrument.

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

<u>Course Description:</u> 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

Course #: MUS200C Grade Level: 10-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Participation in a school

band the prior year OR instructor approval

Fees: \$50 rental fee for percussionists and \$55 rental if using a school wind instrument.

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

<u>Course Description:</u> 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

<u>Fees:</u> \$50 rental fee for percussionists and \$55 rental if using a school wind instrument.

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

<u>Course Description:</u> This course is a concert 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.

Fortis

Course #: MUS120A Grade Level: 9-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Instructor approval

<u>Considerations:</u> 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.

<u>Course Description:</u> 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 guarter.

Lux

Course #: MUS120B Grade: 9-12 Credits: 10

Length: 2 semesters Format: Skinny

Prerequisite: 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.

Chamber Singers

Course #: MUS210A Grade Level: 10-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Fortis, Lux, 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 #: MUS210AA

Grade Level: 10-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Fortis, Lux, 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: Fortis, Lux, 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 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: Fortis, Lux, 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. Students will receive a weekly lesson in each nineweek period. Private lessons are recommended.

Cantemus

Course #: MUS210E Grade Level: 10-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Fortis, Lux, 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

Course #: MUS230-1
Grade Level: 9-12

Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Instructor 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: Instructor approval

Fees: \$45.00 rental instrument fee.

<u>Considerations:</u> 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.

Sinfonietta

Course #: MUS230-2

Grade Level: 9-12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: Instructor 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: Instructor approval

Fees: \$45.00 rental instrument fee.

<u>Considerations:</u> 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.

Linn-Mar Program of Studies

Marching Band

Course #: MUS280 Grade Level: 10-12

(9th by audition)

Credits: 2.5

Length: 1 Quarter

Format: Early-Bird (7:45-8:30)

Prerequisite: None

<u>Fees:</u> \$20 rental fee for color guard, percussion, and school-owned wind instruments + \$60 marching band fee for all students.

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: Instructor

Recommendation

<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.

<u>Course Description:</u> 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.



Linn-Mar Fitness/Health

REQUIRED x 2 **REQUIRED** Lifetime Fitness -<u>Health I</u> HPE250 **Fundamentals** HPE110 Grade: 10 Grade: 9-10 PR: None Lifetime Fitness -Lifetime Fitness -REQUIRED - CHOICE OF 2 Intermediate Aqua Fit I HPE305 HPE321 Grade: 11-12 <u>Lifetime Fitness – </u> <u>Lifetime Fitness – </u> Aqua Fit II <u>Advanced</u> HPE322 HPE415 Grade: 11-12 Grade: 10-12 Super Sport Lifetime Fitness -ALT400. HPE120 **Lifeguard Certification** Grade: 9-12 HPE323 Grade: 11-12 PR: Approval

ELECTIVE

Health II
HPE260
Grade: 11-12
PR: Health I,
General Biology, Anatomy
and Physiology

Health Careers
HPE450
Grade: 12
PR: None

Sports Officiating
HPE500, HPE501
Grade: 9-12
PR: None

Venture Principles
of Biomedical
Science
HPE600, HPE702,
ENG120
Grade: 10-12
20 credits

Graduation Requirements

- 20 Credits of Fitness/Health
- Must include <u>Health I</u> and CPR
- Must include 5 credits of <u>Lifetime Fitness Fundamentals</u> each year for grades 9 and 10, and a minimum of 2.5 credits of <u>Lifetime Fitness Intermediate</u>, <u>Aqua Fit I or II</u>, <u>Lifeguard Certification</u>, or <u>Super Sport</u> each year for grades 11 and 12.

Fitness/Health

PR=Prerequisite Requirement

The Department of Education mandates that physical education is compulsory for every student (Iowa Code § 256.11; 281—IAC 12). The Fitness Program is designed to encompass a wide range of core component areas, including cardiovascular fitness, muscular fitness, and total body flexibility. We believe in providing a holistic approach to physical education that prepares our students for a healthy and active lifestyle. A comprehensive CPR Skills review course is integrated into the Intermediate Fitness (11-12) sections. It is mandatory for students to complete this CPR review course to fulfill both LMHS and State graduation requirements. Our approach at Linn-Mar High School is rooted in providing students with a well-rounded and comprehensive education that not only focuses on academic growth but also on improved physical fitness skills.

Health I

Course #: HPE250

Grade Level: 10 Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

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

graduation.

<u>Course Description:</u> 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, nutrition, eating disorders, sexual education, substance abuse, STDs, HIV/AIDS, cancer, infectious and non-infectious diseases.

<u>Health II</u>

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

Course #: ALT400, HPE120

Grade Level: 9-12 Credits: 2.5

Length: 1 Quarter Format: Block Prerequisite: Approval

<u>Considerations:</u> Required for students with adaptive physical education IEP goals. Students without adaptive physical education IEP goals may also enroll in this course (with PE Department approval) to earn Lifetime Fitness credit.

Course Description: This adaptive physical education course focuses on individual and team activities to promote an active and healthy lifestyle. This course will adapt activities to meet the physical needs of all students. Students will work together to meet physical education goals and standards. Specific skills taught and assessed will be determined by each student's adaptive physical education IEP goals or established by Linn-Mar's Lifetime Fitness standards.

<u>Lifetime Fitness - Fundamentals</u>

Course #: HPE110

Level: Years 1 and 2 (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: This section emphasizes beginning personal functional fitness skills and introduces basic fitness concepts and principles. Students will be encouraged to participate in the class activities at a moderate level while demonstrating a foundational knowledge of fitness concepts and principles. The course includes engaging in a variety of activities that target total body fitness, along with recreational and team games. Successful completion of this section will fulfill the yearly state graduation requirement for physical activity.

<u>Lifetime Fitness - Intermediate</u>

Course #: HPE305

Level: Year 3 or 4 (11-12)

Credits: 2.5

Length: 1 Quarter Format: Skinny

Prerequisite: LF-Fundamentals or

Permission

Grading: Credit/No credit

<u>Considerations:</u> A Lifetime Fitness course is required for each year of enrollment.

Course Description: This section emphasizes enhancing personal functional fitness skills and exploring a variety of fitness and relaxation activities. Students will be encouraged to achieve an improved level of fitness while demonstrating advanced knowledge of fitness concepts and principles. Additionally, students will complete a CPR Skills Unit. Successful completion of this section will fulfill the state graduation requirement for physical activity and the state CPR Skills review requirement.

Linn-Mar Program of Studies

Lifetime Fitness - Advanced

Course #: HPE415

Level: Advanced (Year 2, 3, or 4)

Credits: 2.5 (Each Quarter)

Length: 1 Quarter

Format: 1st and 4th Blocks Only Prerequisite: LF-Fundamentals or

Permission

Grading: Credit/No credit

<u>Considerations:</u> A Lifetime Fitness course is required for each year of enrollment.

Course Description: This section is an advanced-level course designed for students interested in a curriculum that will enhance their physical preparedness for athletic competition. The focus is on elevating the students' athletic performance through targeted off-season strength and speed development workouts, designed to increase muscle mass while refining both linear and lateral speed. Additionally, students will complete a CPR Skills Unit. Successful completion of this section will fulfill the state graduation requirement for physical activity and the state CPR Skills review requirement.

Students will select the desired term (Q1, Q2, Q3, and/or Q4) for participation. Students may participate in this course up to 2 times per year.

Lifetime Fitness - Aqua Fit I

Course #: HPE321
Grade Level: 11-12
Credits: 2.5

Length: 1 Quarter Format: Skinny

Prerequisite: LF-Fundamentals or

Permission

Grading: Credit/No credit

<u>Considerations:</u> A Lifetime Fitness course is required for each year of enrollment.

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 Goalsetting 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. CPR training is included in this course.

Lifetime Fitness - Aqua Fit II

Course #: HPE322
Grade Level: 11-12
Credits: 2.5

Length: 1 Quarter Format: Skinny

Prerequisite: LF–Fundamentals,

Aqua Fit I, or permission

Grading: Credit/No credit

<u>Considerations:</u> A Lifetime Fitness course is required for each year of enrollment.

Course Description: This section is an extension of concepts and skills learned in Lifetime Fitness -Aqua Fit I. The student will design and implement an Individualized Aquatic Fitness Plan. The class will continue to emphasize 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 enhanced Goalsetting skills to aid in enhancing personal fitness and complete a Life Skills Unit. The student will be challenged to achieve an advanced 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. CPR training is included in this course.

Health Careers

Course #: HPE450

Grade Level: 12

Credits: Up to 21 credits Length: 2 Semesters

Format: Block Prerequisite: None

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

<u>Fee:</u> 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.



<u>Lifetime Fitness - Lifeguard Certification</u>

Course #: HPE323E
Grade Level: 10-12
Credits: 2.5

Length: 1 Quarter

Format: Skinny, 3rd Quarter,

7:50 – 8:30 am

Prerequisite: See below for

prerequisite info.

Grading: Credit/No credit

<u>Considerations:</u> A Lifetime Fitness course is required for each year of enrollment.

<u>Course Description:</u> This is a Red Cross Certified Lifeguard training course. The primary purpose of the courses in the American Red Cross Lifeguarding program is to provide participants with the knowledge and skills needed to:

- Prevent, recognize, and respond to aquatic emergencies.
- Provide professional-level care for breathing and cardiac emergencies, injuries, and sudden illnesses until emergency medical services (EMS) professionals take over.

The intended audience for the courses in this program includes those seeking certification to work as lifeguards at pools and non-surf waterfronts.

Throughout the course, participants will learn and be evaluated on knowledge and skills related to lifeguarding, water rescues, extrications, CPR and AED and First Aid.

Red Cross Lifeguard Requirements for certification:

- Participants must score a minimum of 80% on a 50-question final knowledge exam.
- Participants must successfully complete 3 final skills assessments:
 - Rotate in, conduct surveillance, rotate out
 - Timed Single-rescuer CPR Scenario
 - Multiple Rescuer Response Scenario

Students electing certification will be required to pay an American Red Cross fee of approximately \$50. Financial assistance is available for free or reduced lunch students through the counseling office.

Upon successful completion of the Lifeguarding course, the participant will receive an American Red Cross Universal Certificate indicating certification in Lifeguarding/First Aid/CPR/AED, valid for two years.

NOTE: Student may pass the course for school credit, but not pass the Red Cross test for Lifeguard certification.

Course Prerequisite:

- Students must be 15 years of age before the last scheduled class session.
- Must demonstrate the following skills by the end of the first week of class:

Lifeguarding Swim-Tread-Swim Sequence

- Swim 150 yards using the front crawl, breaststroke, or a combination of both.
- Swimming on the back or side is not permitted.
- Swim goggles are allowed.
- Maintain position at the surface of the water for 2 minutes by treading water using only the legs.

Timed Event

Complete a timed event within 1 minute, 40 seconds.

- Starting in the water, swim 20 yards.
- The face may be in or out of the water.
- Swim goggles are not allowed.
- Surface dive (feet-first or head-first) to a depth of 7 to 10 feet to retrieve a 10-pound object.
- Return to the surface and swim 20 yards on the back to return to the starting point, holding the object at the surface with both hands and keeping the face at or near the surface.
- Exit the water without using a ladder or steps

Sports Officiating

Course #: HPE500, HPE501

Grade Level: 9-12

Credits: 1 credit per license

Length: 1 Semester

Format: RTI Prerequisite: None

<u>Considerations:</u> Individual learning schedules will be determined based on the officiating licenses being pursued. Some of the course will be online learning and students will not meet every day.

<u>Fee:</u> Initial IHSAA or IGHSAU license fees (\$20 for one sport and \$12 for each additional sport) are waived for students completing this course.

<u>Course Description:</u> Sports Officiating prepares students to serve as a referee, umpire, judge, or other official for sports contests. The course emphasizes knowledge and interpretation of the rules, mechanics, and effective decision-making. Licensing is available for basketball, wrestling, and soccer in the fall semester, and baseball, softball, volleyball, and football in the spring semester.

PLTW/ Venture Principles of Biomedical

Science

Course #: HPE702
Grade Level: 10-12
Credits: 20 credits (10 Biomedical,

5 Rhetoric, 5 Elective

Venture credits)

Length: 2 Semesters

Format: Block

Prerequisite: Health I, General Biology

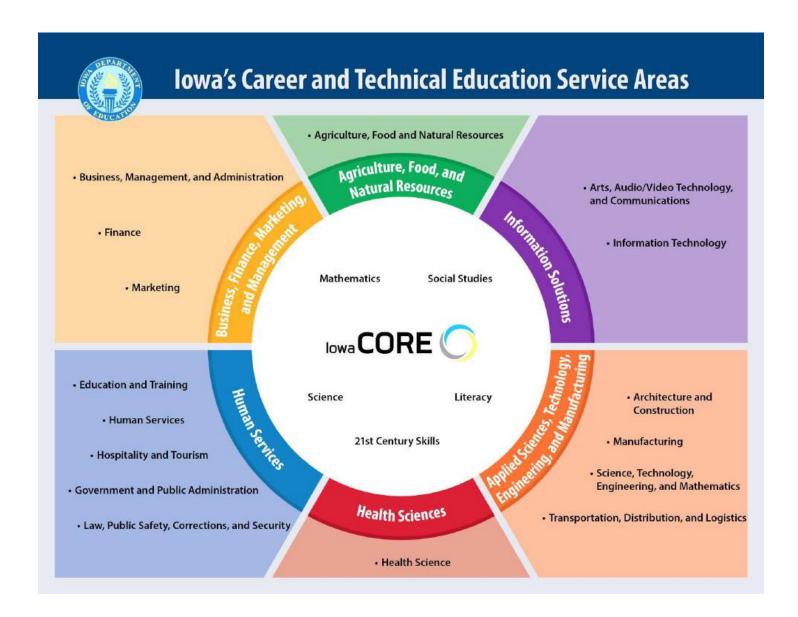
<u>Considerations:</u> This is a Project Lead the Way course provided only through Venture Academics. There is no standalone section.

<u>Course Description:</u> From design and data analysis to outbreaks, clinical empathy, health promotion, and more, students explore the vast range of careers in biomedical sciences. They develop not just technical skills, but also indemand, transportable skills that they need to thrive in life and career.

In this course, students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems.

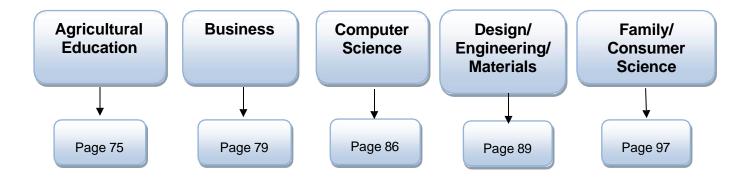
Students will learn from and be mentored by professionals in the community during the course and have opportunities for field experiences and job shadows in areas of interest. See page 110 to learn more about the Venture program.

Career and Technical Education Service Areas and Career Clusters



Linn-Mar Career and Technical Education Pathways begin on page 125.

Linn-Mar Exploratory and CTE Career and Technical Education



Agricultural Education

PR=Prerequisite Requirement

Introduction to
Agriculture, Food, and
Natural Resources
AGR110
Grade: 9-10
PR: None

Aquaculture Science
AGR225
Grade: 9-12
PR: None

Principles of
Agricultural ScienceAnimal
AGR240
Grade: 10-12
PR: None

Principles of
Agricultural SciencePlant
AGR250
Grade: 10-12
PR: None

Natural Resources and
Ecology
AGR260
Grade: 10-12
PR: None

Food Science and
Safety
AGR270
Grade: 10-12
PR: None

Animal and Plant
Biotechnology
AGR280
Grade: 10-12
PR: None

Environmental Science
Issues
AGR290
Grade: 10-12
PR: None

Agriculture Power and
Technology
AGR300
Grade: 10-12
PR: None

Agricultural Business
Foundations
AGR325
Grade: 10-12
PR: None

Agricultural Research
and Development
AGR500
Grade: 10-12
PR: None

AFNR - Workplace
Experience
AGR550
Grade: 11-12
PR: None

Introduction to Agriculture, Food, and Natural

Resources
Course #:

Grade Level:

AGR110 9-10

Credits: 10

Length: 2 Quarters
Format: Block
Prerequisite: 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.

<u>Principles of Agricultural Science-</u> Animal

Course #: AGR240
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-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

Course #: AGR225
Grade Level: 9-12
Credits: 5

Length: 1 Quarter Format: Block Prerequisite: 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 which teaches 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 #: AGR260
Grade Level: 10-12
Credits: 10



Length: 2 Quarters
Format: Block
Prerequisite: None

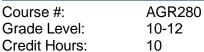
Considerations:

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

Course Description:

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.

Animal and Plant Biotechnology



Length: 2 Quarters
Format: Block
Prerequisite: None

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 micro pipetting, 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

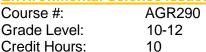
Considerations:

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



Length: 2 Quarters
Format: Block
Prerequisite: None

Considerations:

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

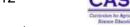
Course Description:

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 Technology

Course #: AGR300 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:

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 #: AGR325 Grade Level: 10-12 Credit Hours: 10



Prerequisite: None

Considerations:

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

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 #: AGR500
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:

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.

AFNR - Workplace Experience

Course #: AGR550
Grade Level: 9-12
Credit Hours: 5
Length: Varies

Format: Independent study

Prerequisite: None

Considerations:

Instructor approval required. SAE (supervised agricultural experience) and FFA opportunities.

Course Description:

This Agriculture, Food, and Natural Resources—Workplace Experience course provides work experience in fields related to agriculture, food, and natural resources. Goals are set cooperatively by the student, teacher, and worksite supervisor.

Business Accounting/Finance

PR=Prerequisite Requirement

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

> Accounting BUS330 Grade: 10-12 PR: None

Advanced Accounting
BUS430
Grade: 10-12
PR: Accounting

Career Immersion
Work-Based Internship
BUS440
Grade: 12 or Approval

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

Career Immersion
Work-Based Learning
BUS450
Grade: 12 or Approval

Business Marketing/Entrepreneurship

PR=Prerequisite Requirement

Introduction to Business

BUS120 Grade: 9-12 PR: None

SOC310

Marketing

BUS355 Grade: 10-12 PR: None

Venture Applied Marketing

BUS701

Grade: 10-12, 20 Credits

ENG120 Rhetoric (5) BUS350 Marketing (5)

BUS360 Digital Marketing (5) BUS701 Venture Applied Marketing (5)

Venture Inventrepreneurship

BUS702

Grade: 10-12, 20 Credits

ENG120 Rhetoric (5)

BUS460 Entrepreneurship (10)

BUS702 Venture Inventrepreneurship (5)

Business/Consumer Law

BUS410 Grade: 11-12 PR: None

Entrepreneurship

BUS460 Grade: 10-12 PR: None

LM ROAR Store

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

AP Microeconomics

BUS510 Grade: 10-12 PR: None

Career Immersion Work-Based Internship BUS440

Grade: 12 or Approval

Career Immersion Work-Based Learning BUS450

Grade: 12 or Approval

Personal Finance

Course #: BUS110, BUS110E, or

BUS110V

Grade Level: 9-12

Credits: 5 for BUS110 and

BUS110V.

2.5 for BUS110E

Length: 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> This course meets financial literacy standards of the lowa Core required for graduation. Students choosing the teacher-led, face-to-face experience must register for BUS110. Students desiring a self-paced (must be completed in one semester), online experience must register for BUS110<u>E</u>. Students desiring a virtual experience where up to nine mandatory virtual attendance days are required must register for BUS110V.

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.

Economics

Course #: SOC310
Grade Level: 11-12
Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> Students should be comfortable working with charts and tables.

<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).

Accounting

Course #: BUS330 Grade Level: 10-12 Credits: 10

Length: 2 Quarters

Format: Block Prerequisite: None

Considerations: None

<u>Course Description:</u> 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.

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. 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.

Sports and Entertainment Marketing

Course #: BUS345
Grade Level: 10-12
Credits: 5
Length: 1 Quarter

Length: 1 Quarte
Format: Block
Prerequisite: None

<u>Considerations:</u> Sports and Entertainment Marketing was formerly offered only as part of the Venture Marketing Essentials strand.

<u>Course Description:</u> Sports and Entertainment Marketing focuses on marketing tasks that can be applied in amateur or professional sports or sporting events, entertainment or entertainment events, products and services related to hobbies or cultural events, or businesses primarily engaged in satisfying the desire for enjoyable use of leisure time.

Marketing

Course #: BUS355
Grade Level: 10-12
Credits: 5

Length: 1 Quarter
Format: Block
Prerequisite: None

Considerations: None

Course Description: This class will focus on exploring one of the most critical functions a business often spends time and money on. Students will learn about tools and strategies that businesses of all types and sizes use to create an image, influence targeted customers, and eventually sell a product or service (or idea). Content is grouped into the categories of product, place, price, and promotion and includes branding, social media marketing, marketing research, selling, and distribution.

Venture Applied Marketing

Course #: BUS701 Grade Level: 10-12

Credits: 20 (5 Marketing, 5 Digital

Marketing, 5 Rhetoric, 5 Elective Venture credits)

Length: Semester

Format: SuperBlock (2 Blocks)

Prerequisite: None

Courses: BUS355, BUS360, and ENG120.

Course Description: Formerly Venture Marketing Essentials. In this project-based course, students will be introduced to the core concepts of marketing, both traditional and digital strategies. Students will engage in hands-on projects that simulate real-world marketing campaigns, providing opportunities to apply principles such as (but not limited to) market research, branding, advertising, product development, and sales strategies. They will learn how to craft compelling marketing messages, analyze consumer behavior, and create multi-channel campaigns that reach diverse audiences. By the end of the course, students will have a strong foundation in marketing theory, practical skills in digital platforms, and the ability to present their ideas professionally. See page 110 to learn more about the Venture program.

Digital Marketing

Course #: **BUS360** Grade Level: 10-12 Credits: 5

Length: 1 Semester Format: SuperBlock Prerequisite: None

Considerations:

Not offered as a standalone class; this class is available only as part of the Venture Applied Business strand.

Course Description:

Digital Marketing provides a broad overview of the techniques used by businesses to market to consumers of the 21st century, in a digital economy. Students will gain a fundamental understanding of web page design, content marketing, analytics, search engine optimization (SEO), pay per click, email marketing, and social media marketing.

Business/Consumer Law

Course #: **BUS410** Grade Level: 11-12 Credits: 5

Length: 1 Quarter Format: **Block** Prerequisite: None

Considerations: None

Course Description: 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.

Advanced Accounting

Course #: BUS430 Grade Level: 10-12 Credits: 10

Length: 2 Quarters Format: Block Prerequisite: Accounting

Considerations: 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.

Work-Based Internship

Career Immersion

Course #: **BUS440** Grade Level: 12 Credits: 20

Length: 2 Semesters

Format: Block

See Considerations Prerequisite:

Considerations: Must also enroll in Work-Based Learning; admitted when hired by an MOC teacherapproved employer; receive pay in addition to credit; must commit to one year.

Course Description: Work-Based Internship 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.

Work-Based Learning

Course #: BUS450

Grade Level: 12 Credits: 10

Length: 2 Semesters

Format: Skinny

Prerequisite: See Considerations

<u>Considerations:</u> Must also enroll in Work-Based Internship; must commit to one year. 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.

Students satisfactorily completing this course will be credited for meeting financial literacy (Personal Finance) diploma requirements.

<u>Course Description:</u> 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, maintain financial records, prepare personal income tax forms, manage credit and debt (credit scores/identity theft), insurance, saving and investing strategies.

Entrepreneurship

Course #: BUS460
Grade Level: 10-12
Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

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

<u>Course Description:</u> This class will teach students about entrepreneurship by exploring strategies used in the early stages of business development. This class takes a hands-on approach to solving problems and encourages students to be innovative, test assumptions, and develop a (business) startup. Students will use tools & strategies like the Lean Startup Methodology, Design Thinking, and the Business Model Canvas to validate their ideas. *Students also have the opportunity to earn college credit.

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.

<u>Course Description:</u> 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.

<u>Inventrepreneurship</u>

Course #: BUS702 Grade Level: 10-12

Credits: 20 (10 Entrepreneurship, 5

Rhetoric, 5 Elective Venture credits)

Length: Semester

Format: SuperBlock (2 Blocks)

Prerequisite: None

<u>Considerations:</u> This strand was formerly named Venture-Advanced Business. It is recommended that students enroll in one or more of the following courses prior to enrolling in this strand; Accounting, Marketing, Business/Consumer Law, Personal Finance.

Courses: BUS460 (10) and ENG120 (5).

Course Description: In this project-based course, students will learn about and participate in the process of turning ideas into reality. From brainstorming inventions, to creating prototypes, to creating a business model, students will explore the steps of building a startup. Throughout the class, students will develop and evolve multiple pitches, showing the progress of their inventions and startups. By the end of the course, students will have hands-on experience in bringing their concept to life, while gaining practical knowledge of what it takes to start a successful business. *Students also have the opportunity to earn college credit. See page 110 to learn more about the Venture program.

LM ROAR Store

Course #: BUS550 Grade Level: 11-12 Credits: 10

Length: 1 Semester

Format: Block

Prerequisite: 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 theROARstore'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.

Computer Science

PR=Prerequisite Requirement

Computer Science Essentials

(CSE) CSC100 Grade: 9-12 PR: None

Computer Science Principles

(CSP) CSC300 Grade: 9-12 PR: Algebra

Cybersecurity

CSC350 Grade: 10-12 PR: None

Advanced Placement
Computer Science A (CSA)

CSC500 Grade: 10-12 PR: CSC300

Computer Science Essentials (CSE)

Course #: CSC100 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).

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, students transition to text-based programming using the Python language. Students will use a variety of tools and computational thinking concepts as they build confidence and gain experience in the field of computer science.

Cybersecurity

Course #: CSC350 Grade Level: 10-12 Credits: 10

Length: 2 Quarters
Format: Block
Prerequisite: None

<u>Considerations:</u> Cybersecurity is not a programming course, so no programming experience is required. However, students will do much of their work by entering text commands in a Linux command line terminal. The curriculum covers the material needed to test for the CompTIA Security+ certification.

Course Description: Students will study a variety of cybersecurity topics including types of threats, attacks, and actors; risk analysis and management; cryptographic solutions; vulnerability analysis and remediation; network security; data management; law and policy; and incident response. Students will study a variety of case studies and do labs using a safe virtual machine network environment. Course content will also include some aspects of computer networks and the Linux operating system.

Computer Science Principles (CSP)

Course #: CSC300
Grade Level: 9-12
Credits: 10

Length: 2 Quarters Format: Block

Corequisite: 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.

<u>Course Description:</u> Explore a variety of fields within computer science: Python programming, data visualization, image data manipulation, internet and cybersecurity, and simulation. The course aims to develop computational thinking, generate interest in career paths that utilize computing, and foster creativity. CSP helps students develop programming experience and confidence.

Advanced Placement Computer

Science A (CSA)



Course #: CSC500 Grade Level: 10-12 Credits 10

Length: 2 Quarters

Format: Block

Corequisite: Computer Science

Essentials (CSE) or Computer Science Principles (CSP)

<u>Considerations:</u> Students need a prior programming class (CSE or CSP) before taking CSA. Or, students with other previous programming experience can seek teacher approval to take CSA without a prior class. This course prepares students for the AP Computer Science A exam.

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

Design/Engineering/Materials 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

Civil Engineering and Architecture Design (CEA)

IND630 Grade: 10-12

Digital Electronics

IND620 Grade: 10-12 PR: Algebra

Aerospace Engineering

IND670 Grade: 10-12 PR: Algebra

Engineering Design and

Development (EDD)

IND680

Grade: 12

PR: Any two (2) PLTW or Computer Science courses

Design/Engineering/Materials Construction/Carpentry

PR=Prerequisite Requirement

Woods: Materials & Processes

IND240 Grade: 10-12 PR: None

Cabinet Making (Woods II)

IND250 Grade: 10-12 PR: Woods: M&P

Residential Construction I

IND120 Grade: 9-12 PR: None

Residential Construction II

IND125 Grade: 11-12

PR: Residential Construction I

Capstone
Building Trades
IND500
Grade: 12

PR: Application and Interview

Career Immersion Work-Based Internship BUS440

Grade: 12 or Approval

Design/Engineering/Materials Manufacturing

PR=Prerequisite Requirement

Computer Aided Design

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

Career Immersion
Work-Based Internship
BUS440

Grade: 12 or Approval

Computer Aided Design

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 teach the practical application of 2- and 3-dimensional computer aided design (CAD). Students will learn to use different types of software to model objects and communicate their ideas in industrial and commercial applications.

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 advanced 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

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

<u>Course Description:</u> 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

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

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

<u>Course Description:</u> 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

<u>Considerations:</u> Fees the same as Cabinet Making

<u>Course Description:</u> 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

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

<u>Course Description:</u> 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.

Intro to Engineering Design

Course #: IND600 Grade Level: 9-12

Credits: 10

Length: 2 Quarters Format: Block

Co-requisite: Have taken or currently

taking Algebra

Considerations: This course earns Kirkwood Community College credit.

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 #: IND620 Grade Level: 10-12

Credits: 10 Length: 2 Quarters

Format: Block Prerequisite: Algebra

Considerations: This course earns Kirkwood Community College credit.

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** 10-12

Grade Level: Credits: 10

2 Quarters Length: Format: Block Prerequisite: Algebra

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

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.

Civil Engineering and **Architectural Design (CEA)**

Course #: IND630 Grade Level: 10-12

Credits: 10

Length: 2 Quarters Format: Block Prerequisite: Algebra

Considerations: This course earns Kirkwood Community College credit.

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
Grade Level: 9-12
Credits: 10



Length: 2 Quarters
Format: Block
Co-requisite: Algebra

<u>Considerations:</u> This course involves collegelevel work.

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.

Aerospace Engineering (AE)

Course #: IND670
Grade Level: 10-12
Credits 10



Length: 2 Quarters
Format: Block
Prerequisite: Algebra

<u>Considerations:</u> It is recommended that students have prior experience with a 3D CAD program.

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 #: IND680
Grade Level: 12
Credits 10

Length: 2 Quarters Format: Block

Prerequisite: Any two PLTW or

Computer Science

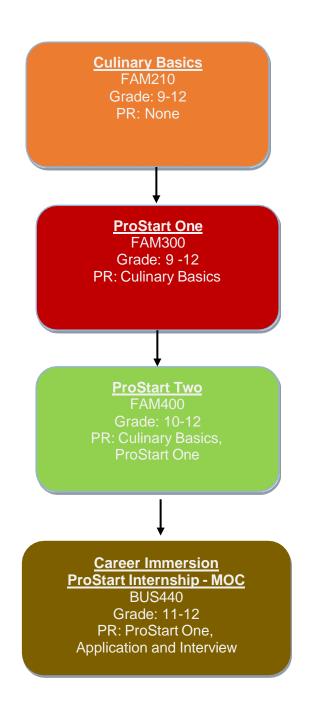
courses.

Considerations: EDD is a culminating capstone course. In order to have a solid foundation for this course, students need successful completion of the prerequisites of any two PLTW or Computer Science courses which include: Introduction to Engineering Design, Principles of Engineering, Digital Electronics, Aerospace Engineering, Civil Engineering and Architecture, Computer Integrated Manufacturing, Computer Science Essentials, Computer Science Principles, Computer Science A, or Principles of Biomedical Science.

Course Description: Utilizing activity-project-problem-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, creative and problem-solving abilities, and 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

Development
FAM425
Grade: 10-12
PR: KCC qualifying placement score

KCC Exploring Teaching FAM450

Grade: 11-12
PR: KCC qualifying
placement score and one Growth
and Development course

KCC Behavior Management FAM460

Grade: 11-12
PR: KCC qualifying
placement score and one Growth
and Development course

Career Immersion MOC

BUS450 Grade: 12 PR: Application and Interview

Venture Exploring Education

FAM701
Grade: 11-12, 20 Credits
FAM425 Child Growth and
Development
FAM450 Exploring Teaching
FAM460 Behavior Management
FAM701 Venture Exploring
Education

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 Grade: 9-12 PR: None

Advanced Sewing

FAM250 Grade: 10-12 PR: Creative Sewing

Career Immersion

MOC BUS450 Grade: 12 PR: Application and Interview

Foundations of Living

Course #: FAM100
Grade Level: 9-12
Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

Considerations: None

<u>Course Description:</u> 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

Course #: FAM220 Grade Level: 9-12 Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

Considerations: None

<u>Course Description:</u> 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 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, childcare, 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.

KCC Child Growth and Development

Course #: FAM425 Grade Level: 10-12 Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> 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.

<u>Course Description:</u> 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 Growth and

Development or KCC Child Growth and Development

Considerations: This course is offered through the Venture Exploring Education strand only. KCC Exploring Teaching is a concurrent course with Kirkwood Community College and is recommended for those considering careers in education. This is the second 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 introduced 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.

KCC Behavior Management

Course #: FAM460 Grade Level: 11-12 Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: Human Growth and

Development or KCC Child Growth and Development

Considerations: This course is offered through the Venture Exploring Education strand only. KCC Behavior Management 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.

Venture Exploring Education



Length: Semester

Format: SuperBlock (2 Blocks)

Prerequisite: Application, and Teacher and

Counselor Approval

Required

<u>Courses:</u> FAM425 KCC Child Growth and Development (5 credits) FAM450 KCC Exploring Teaching (5 credits), FAM460 KKC Behavior Management (5 credits) and Venture Exploring Education (5 credits) are included.

Course Description: This course covers the same content as FAM425, FAM450, and FAM460, exploring the basics of teaching, child development, and behavior management and observation. A significant portion of this class will be spent participating in hands-on learning experiences and will provide opportunities to observe in classrooms. To create a safe and secure environment for working with young children, students will need teacher and counselor approval which will include an application, interview, and background check. See page 110 for more information about the Venture Academics Program.

This Venture strand meets the requirement for the Para-Educator Generalist Certification.



Linn-Mar Digital Learning

Blended Learning

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

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 take one of two forms, delivered and conducted online through Schoology, or delivered and conducted online through Edmentum[®]. Students will not attend a class during a set time (asynchronous learning). Students will work online while teachers assign and check work digitally.

Students will be expected to meet requirements for course material, discussions, and activities beginning on and completed by communicated dates. Course standards and expectations will be equal to Traditional or Blended Learning courses.

Schoology Online Learning courses for 2025 – 2026 include Composition I and Composition II.

Edmentum® Online Learning courses include Personal Finance, Health I, Government, and a variety of electives in additional content areas. Fully online students may use Edmentum® coursework to meet LMCSD established graduation requirements. Students NOT fully online may not use Edmentum® coursework to meet Health I, Personal Finance, Government, or other core graduation requirements without administrative approval. See page 105 for a listing of Edmentum® offerings available to Linn-Mar High School students.

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 specific times throughout the term, while online learning will not.

Government is offered as a Virtual Learning course for 2025 – 2026. 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.

edmentum

Course Catalog



Linn-Mar High School Edmentum Online Offering

Art

Art History & Appreciation

Career & Technical Education

3D Modeling la: Introduction Animation la: Introduction

Animation lb: Animating Your Creativity!

Artificial Intelligence Biotechnology la: Introduction Biotechnology lb: Unlocking Nature's Secrets Careers in Criminal Justice la: Introduction Careers in Criminal Justice Ib: Finding Your

Criminology: Inside the Criminal Mind

Cybersecurity la: Foundations
Cybersecurity lb: Defense Against Threats

Fashion Design

Law & Order: Introduction to Legal Studies Manufacturing: Product Design and Innovation Technologies: Introduction

Robotics I A/B

Sports and Entertainment Marketing Theater, Cinema, and Film Production la:

Introduction

Theater, Cinema, and Film Production lb: Lights, Camera, Action!

Business

International Business: Global Commerce in the 21st Century

Personal and Family Finance

Electives

Anthropology 1: Uncovering Human Mysteries Anthropology 2: More Human Mysteries

Archaeology: Detectives of the Past

Music Appreciation: The Enjoyment of Listening

Philosophy: The Big Picture

Women's Studies: A Personal Journey Through

World Religions: Exploring Diversity

English

Gothic Literature: Monster Stories Mythology and Folklore: Legendary Tales The Lord of the Rings: An Exploration of the Films and Their Literary Influences

Health & PE

Nutrition and Wellness

Math

Consumer Mathematics Financial Mathematics A/B

Science

Forensic Science 1: Secrets of the Dead Forensic Science 2: More Secrets of the Dead

Forensics: The Science of Crime Foundations of Green Energy

Great Minds in Science: Ideas for a New Generation

Marine Science: Secrets of the Blue

Social Studies

African American History Contemporary World A/B

History of the Holocaust

Human Geography: Our Global Identity U.S. Government

World Geography A/B

World Languages

American Sign Language la

American Sign Language Ib

American Sign Language 2a

American Sign Language 2b

American Sign Language 3a: Community and Culture

American Sign Language 3b: Conversations and Culture Chinese 1 A/B (EdOptions Academy Only)

Chinese 2 A/B (EdOptions Academy Only)

German 1 A/B

German 2 A/B

Latin 1 A/B (EdOptions Academy Only) Latin 2 A/B (EdOptions Academy Only)

Linn-Mar Extension Opportunities

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. Current extension offerings include the Linn-Mar project-based learning program **Venture Academics**, **Project Lead the Way (PLTW)** program, and, for those students identified for inclusion, the Linn-Mar **Talented and Gifted program**.

<u>Project Lead the Way (PLTW)</u> 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)
- Principles of Biomedical Science (PBS)
- Computer Integrated Manufacturing (CIM)
- Civil Engineering and Architectural Design (CEA)
- Aerospace Engineering (AE)
- Engineering Design and Development (EDD)

<u>Venture Academics</u> is a project-based learning program designed to provide real-world context for learning. Students participate in the Venture program for one-half day of one semester at a time earning valuable required and elective course credit through authentic experience.

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.



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

Intro to Engineering Design

Course #: IND600
Grade Level: 9-12
Credits: 10

Length: 2 Quarters Format: Block

Co-requisite: Have taken or currently

taking Algebra

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

<u>Course Description:</u> 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 #: IND610
Grade Level: 10-12
Credits: 10

Length: 2 Quarters
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 college engineering coursework is like.

Digital Electronics (DE)

Course #: IND620
Grade Level: 10-12
Credits: 10

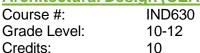


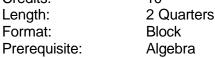
Length: 2 Quarters
Format: Block
Prerequisite: Algebra

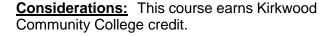
<u>Considerations:</u> This course earns Kirkwood Community College credit.

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> <u>Architectural Design (CEA)</u>







<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 Format: Block Co-requisite: Algebra

<u>Considerations:</u> This course involves collegelevel work.

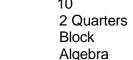
Course Description: How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? While students discover the answers to these questions,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

Aerospace Engineering (AE)

Course #: IND670
Grade Level: 10-12
Credits 10
Length: 2 Quarter

Format:

Prerequisite:



PROJECT LEAD THE NOT

<u>Considerations:</u> It is recommended that students have prior experience with a 3D CAD program.

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 #: IND680 Grade Level: 12

Credits 10

Length: 2 Quarters Format: Block

Prerequisite: Any two PLTW or

Computer Science

courses.

Considerations: EDD is a culminating capstone course. In order to have a solid foundation for this course, students need successful completion of the prerequisites of any two PLTW or Computer Science courses which include: Introduction to Engineering Design, Principles of Engineering, Digital Electronics, Aerospace Engineering, Civil Engineering and Architecture, Computer Integrated Manufacturing, Computer Science Essentials. Computer Science Principles, Computer Science A, or Principles of Biomedical Science.

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.

PLTW Principles of Biomedical Science

Course #: **HPE600** Grade Level: 10-12 Credits: 20 credits (10 Biomedical,

5 Rhetoric, 5 elective)

2 Semesters Length:

Format: Block

Prerequisite: Health I, General Biology

Considerations: This is a Project Lead the Way course provided only through Venture Academics. There is no standalone section.

Course Description: From design and data analysis to outbreaks, clinical empathy, health promotion, and more, students explore the vast range of careers in biomedical sciences. They develop not just technical skills, but also indemand, transportable skills that they need to thrive in life and career.

In this course, students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems.

See page 110 for more information about the Venture Academics Program.



INNOVATIVE, PROJECT-BASED LEARNING

The goal of Venture Academics is to teach students high school coursework with a strong project component. Students will learn to apply what they are learning to real world applications and develop skills, such as problem-solving, critical thinking, creativity, time management, and the ability to work collaboratively. We build connections with local businesses and professionals for the purpose of students working on projects for businesses, being mentored, and gaining exposure to businesses and careers in this area. Each strand earns 20 credits (15 content, 5 universal construct).

- ALL STRANDS OTHER THAN ENVIRONMENTAL SCIENCE, DIGITAL DESIGN AND COMMUNICATIONS, AND EXPLORING EDUCATION EARN ENG120/390 RHETORIC OR COMMUNICATIONS CREDIT
- FIRST-YEAR VENTURE STUDENTS EARN RHETORIC CREDIT
- SECOND-YEAR VENTURE STUDENTS EARN COMMUNICATIONS CREDIT

AVAILABLE STRANDS

BEHAVIORAL SCIENCE

SOC330 SOCIOLOGY SOC340 INTRODUCTORY PSYCHOLOGY SOC702 VENTURE BEHAVIORAL SCIENCE ENG120 RHETORIC

BIOLOGY

SCI210 GENERAL BIOLOGY SCI702 VENTURE BIOLOGY ENG120 RHETORIC

BIOMEDICAL SCIENCE

HPE600 PLTW PRINCIPLES OF BIOMEDICAL SCIENCE HPE702 VENTURE BIOMEDICAL SCIENCE ENG120 RHETORIC

CIVICS

SOC390 STATE AND LOCAL GOVERNMENT SOC400 GOVERNMENT SOC701 VENTURE GOVERNMENT AND LAW ENG120 RHETORIC

CREATIVE WRITING

ENG410 CREATIVE WRITING ENG702 VENTURE CREATIVE WRITING ENG120 RHETORIC

DIGITAL DESIGN AND COMMUNICATION

ART400B PHOTOGRAPHY ART420 GRAPHICS TWO ART450 ADVANCED ART ART701 VENTURE DD & C

EARTH SCIENCE

SCI125 EARTH SCIENCE SCI701 VENTURE EARTH SCIENCE ENG120 RHETORIC

INVENTREPRENEURSHIP

BUS460 ENTREPRENEURSHIP BUS702 VENTURE INVENTREPRENEURSHIP ENG120 RHETORIC

EXPLORING EDUCATION

FAM425 CHILD GROWTH AND DEVELOPMENT FAM450 EXPLORING TEACHING FAM460 BEHAVIOR MANAGEMENT FAM701 VENTURE EXPLORING EDUCATION

APPLIED MARKETING

BUS355 MARKETING BUS360 DIGITAL MARKETING BUS701 VENTURE APPLIED MARKETING ENG120 RHETORIC



LMHS Talented and Gifted



Freshman Seminar TAG 1

Course #: TAG410

Grade Level: 9 Credits: 2.5

Length: 1 Quarter Format: Skinny

Prerequisite: Instructor approval

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

<u>Course Description:</u> Students explore how their skills, abilities, and personality traits relate to educational and career options. They will also study the college admissions process, financial aid process, and how to find a college that best suits their goals. Students also design and implement a community service project.

AP Online Independent Study

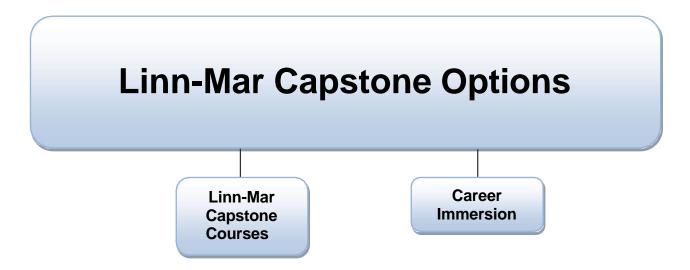
Course #: TAG620 Grade Level: 10-12

Credits: 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> Independent study options are limited to AP MACROECONOMICS and AP ENGLISH LANGUAGE AND COMPOSITION. Courses are offered through the lowa Online AP Academy. You need at least one skinny in your schedule. Limited enrollment.



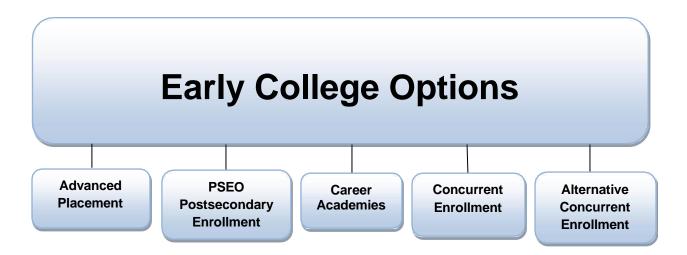
Linn-Mar Capstone Courses

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 Work-Based Internship program, a partnership with The Workplace Learning Connection, and other businesses and agencies. Please see a counselor for more information on these opportunities.



Advanced Placement

Linn-Mar High School offers Advanced Placement (AP) courses in Calculus (AB and BC), Statistics, Biology, Chemistry, Environmental Science, French, 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 courses 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 for the school district to pay for the course.
- Students must maintain the minimum high school course load.

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 help students explore careers, develop new skills, and gain insights into today's workplace. Academics include:

- Advanced Manufacturing and Welding
- Allied Health
- Application and Software Development
- Architecture, Construction, and Engineering (ACE)
- Automotive Technology
- Criminal Justice and Human Services
- Dental
- Emergency Medical Technician (EMT)
- Patient Care Exploration
- Pre-Med, Nursing, and Professional Health Careers
- Pre-Nursing with Nurse Aide Certification

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.

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
Digital Electronics

Exploring Teaching
Intermediate Spanish I
Intermediate Spanish II
Intro to Engineering Design
Mathematics and Society
Principles of Engineering

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 or online:

American Sign Language I, II, III, IV

Art Appreciation

Basic Anatomy and Physiology

Calculus II
Calculus III

Child Health, Safety, and Nutrition

Computer Concepts Criminal Investigations Cultural Anthropology

Ethics in Information Technology

Encounters in Humanities Exploring Health Careers

Fundamentals of Web Programming Fundamentals of Oral Communication

Geriatric Specialist

Holocaust/Genocide: Mem & Lit

How College Works

Human Anatomy and Physiology I Human Anatomy and Physiology II Human Relations in Management

Intro to Criminal Justice Introduction to Business

Intro to Early Childhood Education

Introduction to Ethics
Intro to Human Services

Intro to Programming Logic Introduction to Sociology Marriage and Family

Mass Media

Medical Terminology Music Fundamentals

Nurse Aide Nutrition

Personal Finance Personal Wellness Popular Culture

Principles of Sports Management Principles of Macroeconomics

Professionals in Health Project Management Basics

Public Speaking

Social Media in Business

Social Problems

Survey of World Religions Topics in Education US History Since 1877 US History to 1877 Working in America

Workplace PBL: Information Solutions

^{*}Concurrent and alternative concurrent enrollment options are subject to change after publication. The Linn-Mar High School Counseling Office will maintain an updated list of available concurrent and alternative concurrent enrollment courses.

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 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 **the building principal** 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 #: ENG110

Grade Level: 9
Credits: 10

Length: 2 Quarters
Format: Block
Prerequisite: None

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

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

English 10

Course #: ENG200

Grade Level: 10 Credits: 10

Length: 2 Quarters
Format: Block
Prerequisite: English 9

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

<u>Course Description:</u> This course develops communication skills in reading, speaking, listening, thinking, and writing. It includes the following units: short story, 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: Compass Only

<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 #: ENG220

Grade Level: 10-12 Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

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

<u>Course Description:</u> 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

<u>Consideration</u>: Compass Only. 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: Compass Only

<u>Course Description:</u> 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: Compass Only

<u>Course Description:</u> 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 quarter.

Speech

Course #: ENG310 Grade Level: 11-12

Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

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

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

English Skills

Course #: ENG335 Grade Level: 9-12 Credits: 2.5

Length: 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> Compass Only. 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

theme.

<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

Contemporary Literature II

Course #: ENG250
Grade Level: 10-12
Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: Contemporary Literature

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

<u>Course Description:</u> 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.





<u>Independent Novel Writing</u>

Course #: ENG400
Grade Level: 9-12
Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: Writing and Creative

Writing

<u>Considerations:</u> Compass Only. 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

Course #: ENG410 Grade Level: 10-12

Credits: 5

Length: 1 Quarter Format: Block Prerequisite: 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 #: MAT115 Grade Level: 9-12

Credits: 5 credits per quarter

Length: 1 Semester

Format: Block Prerequisite: 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 Fundamentals I

NCA

Course #: MAT150 Grade Level: 10-11

Credits: 5 credits per quarter

Length: 1 Semester

Format: Block

Prerequisite: Pre-Algebra and instructor

approval

<u>Considerations:</u> Compass Only. 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 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

Course #: **MAT155** Grade Level: 10-12

Credits: 5 credits per quarter

1 Semester Length:

Format: Block

Prerequisite: Algebra Fundamentals I or

instructor approval

Considerations: Compass Only. 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 II together meet the algebra graduation requirement.

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 #: MAT220

Grade Level: 9-12

Credits: 5 Credits per quarter

2 Semesters Length:

Format: Block

Prerequisite: Algebra OR Algebra

Fundamentals II

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

2 Quarters Length: Format: Block Prerequisite: None

Considerations: Compass Only. Strong comprehensive vocabulary, reading and study skills.

Course Description: This course is a survey class in life science. The areas investigated include biological structure and function, heredity, life's continuity and change, and diversity of life.

Stream & Field Biology

Course #: **SCI280** Grade Level: 10-12 Credits:

Length: 1 Quarters Format: Block

Prerequisite: General Biology

Considerations: Compass Only. See

prerequisites. Strong comprehensive vocabulary. reading and study skills. This course meets the L-M science elective requirement.

Course Description: 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 #: SCI240 Grade Level: 10-12 Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: General Biology

<u>Considerations:</u> Compass Only. See prerequisite. 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> Compass Only. Strong comprehensive vocabulary, reading and study skills. This course meets the physical science requirement for graduation.

<u>Course Description:</u> 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 fundamental properties and laws of the physical world. These properties include motion, forces, momentum, and energy.

Advanced Biology

Course #: SCI230 Grade Level: 10-12 Credits: 5

Length: 1 Quarter Format: Block

Prerequisite: General Biology

<u>Considerations:</u> Compass Only. See prerequisite. 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 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 #: AGR230 Grade Level: 10-12 Credits: 5

Length: 1 Quarter
Format: Block
Prerequisite: Biology I

<u>Considerations:</u> Compass Only. See prerequisite. Strong comprehensive vocabulary, reading and study skills. This course meets L-M science elective credit requirement.

<u>Course Description:</u> 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 #: BUS110 or BUS110E

Grade Level: 9-12 Credits: 5

Length: 1 Quarter Format: Block Prerequisite: none

<u>Considerations:</u> This course meets all financial literary standards of the lowa Core.

<u>Course Description:</u> 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

Format: Block Prerequisite: None

Considerations: Compass Only

<u>Course Description:</u> 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

Course #: HPE350 Grade Level: 9-12 Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

Considerations: Compass Only

<u>Course Description</u>: 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.

<u>Considerations:</u> Compass Only. 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

Course #: BUS150
Grade Level: 9-12
Credits: 5

Length: 1 Quarter Format: Block Prerequisite: None

Considerations: Compass Only

<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>: Compass Only. 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

<u>Considerations:</u> Compass Only. Students should be comfortable working with graphs.

<u>Course Description:</u> 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.

PE

Course #: HPE300 Grade Level: 9-12 Credits: 2.5

Length: 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> Compass Only. Meets on Fridays only.

<u>Course Description:</u> Students will improve their strength, agility, and speed while participating in activities that will develop lifelong healthy habits.

Independent Foods

Course #: HPE115 Grade Level: 9-12 Credits: 2.5

Length: 1 Quarter Format: Block Prerequisite: None

<u>Considerations:</u> Compass Only. Meets on Fridays only.

<u>Course Description:</u> Students will explore what goes into budgeting and meal planning. Students will prepare a variety of foods

Career and Technical Education Service Areas and Career Clusters

Agricultural, Food, and Natural Resources	5
Agricultural, Food, & Natural Resources	p. 127
Applied Science, Technology, Engineering	g, and Manufacturing
Architecture	p. 128
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Business, Management, and Administration	p. 130
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Career Pathway: Agriculture



Landscaper

Naturalist

Microbiologist

Veterinarian Tech

Wastewater Mngt.

Learn more & apply

Park Ranger

Pet Groomer

Veterinarian



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

Conservationist

Floral Designer

Botanist

Geologist

Exposure Pathways

High School Courses

Introduction to Ag., Food & Nat. Resources Animal & Plant Biotechnology Aquaculture Science Agricultural Power and Technology Agriculture Sales Principles of Ag. Science-Animal Ag. Business Foundations Principles of Ag. Science-Plant Ag. Research & Development Natural Resources & Ecology AP Environmental Science **Environmental Science Issues Environmental Sustainability** Food Science & Safety

Venture Academics

Venture Environmental Science (AP Environmental Science, Venture Environmental Science)

Venture Earth Science (Earth Science, College Reading, Venture Earth Science) Venture Biology (General Biology, Venture Biology, Rhetoric)

High School Clubs & Organizations

Job Shadows & Internships

Golf Course & Turfgrass Management

GPS/GIS Specialist - Agriculture

Pursuit Pathways

Certificates/Diplomas

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 Humane Officer Ag Business Ag Production Mgmt Landscape Construction & Design Diesel Ag Technology Parks & Natural Resources Golf Course & Athletic Turfgrass Mgmt Water Environmental Technology

Careers & Median Salary Information

Animal Care Worker Recycling Coordinator \$54,000 \$56,000 Food Science Technician Geothermal Technician \$46,000 \$38,000 Heavy Equipment Mechanic: Agricultural Inspector

\$45,000 \$51,000

Careers & Median Salary Information

Veterinary Technologist Chemical Technician \$33,500 \$41,500

Landscaping & Groundskeeping \$40,100

Bachelor Degrees

Environmental Studies Agribusiness Systems Food Science Animal Science

Careers & Median Salary Information

Buyers and Purchasing Agents, Farm Products \$69,000

Animal Scientist \$84,695

Biological Technician \$51.409

Environmental Scientist

\$50,534







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 & Inter	nships
Mechanical Drawing	Metals	Civil Engineer	Project Engineer
Residential Construction 1	Building Trades	Construction	Project Management
Residential Construction 2	PLTW Civil Engineering & Architect	Pre-Fabrication	CAD Design
Woods	Design	Architecture	(2) Learn more & a
Cabinetmaking High School Clubs & Or	Interior Design		
Robotics Femine			

Pursuit Pathways

Civil Engineering and Architectural Design

Certificates/Diplomas		Y	Careers & Median Salary Information	
CAD/Mechanical Engineering Tech.	Construction Estimator	U	Solar Energy Installation	Pipe Fitter & Steamfitter
Carpentry	Construction Supervision Certificate		\$60,000	\$78,354
HVAC Installer			Plumber	Electrician
Plumbing Pre-Apprenticeship			\$55,700	\$61,637

Accort	ate I)egrees
T LOS U CI	are r	JUNE LUCIO

Architecture Technology	Construction Management	Electron
CAD/Mechanical Engineering Tech.	Interior Design	\$57,000

Careers & Median Salary Information

Architecture, Construction & Engineering (ACE) Academy

onic Drafter Surveying and Mapping Technician \$61,460 Mechanical Drafting

\$54,000

Bachelor Degrees		Careers & Median Sal
Architecture	Industrial Engineer	Commercial & Industrial
Civil Engineering	Construction Management	Designer
Industrial Design		\$60,000
		Surveyor

Careers & Median Salary Information

Commercial Designer \$60,000 Landscape Architect \$46,700 \$54,500







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 Pathways

righ School Cou	rses	
Art Exploration	Exploration in Ceramic	Journalism
Beginning Painting	Technique	Creative Writing
Beginning Drawing	Digital Photography	College Grammar
Beginning Ceramics	Beginning Graphics	Intro to College Writing
3-D Mixed Media	Graphics Two	Speech
Expressive Drawing	Advanced Art	Acting
Construction in Clay	Interior Design	Media Inf. Literacy
2-D Mixed Media	Fashion & Sewing	
Drawing in Style	Advanced Sewing	

High School Clubs & Organizations

Art Club	Student Newspaper	
Anime Club	LMTV	
Yearbook		

Job Shadows & Internships

Graphic Designer	Photography
Events Assistant	News & Broadcast
Production Assistant	Radio
Marketing	Writing
Sports	Community Engagement
	Learn more & apply



Experience Pathways

College CTE Courses in High School

Art Appreciation	Fundamentals of Oral Comm.		
Composition 1	Mass Media		
Composition 2	Popular Culture		

Venture Academics

Venture Digital Design & Communications (Graphics Two, Digital Photography, Advanced Art, Venture)
Venture Creative Writing (Creative Writing, Rhetoric, Venture Creative Writing)

Pursuit Pathways

Certificates/Diplomas

Social Media Marketing Web Design

Web Development

Careers & Median Salary Information

Fine Artist Floral Designer \$19,200 \$26,000

Broadcast Technician Printing Press Operator

\$31,660 \$32,700

Associate Degrees

Graphic Communication Technology Web Design

Web Development

Careers & Median Salary Information

Broadcast Technician Camera Operator \$40,000 \$28,800

Bachelor Degrees

Broadcasting Theater English

C Pr

Careers & Median Salary Information

Proofreader Talent Director \$24,500 \$42,500

Stage Director Editor \$42,500 \$41,200







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 Economics Accounting Advanced Accounting Marketing

theROARstore Business/Consumer Law Introduction to Business Entrepreneurship

High School Clubs & Organizations

FBLA (Future Business Leaders of America)

Student Council

Venture Academics

Venture Inventrepreneurship (Entrepreneurship, Rhetoric, Venture)

Venture Applied Marketing (Marketing, Digital Marketing, Rhetoric, Venture)

Job Shadows & Internships

Business Management Operations Clerical Assistant Publications **Hockey Operations** Safety & Loss Hospital Administration Administrative Human Resources **Business Development**

Marketing



Experience Pathways

College CTE Courses in High School

Introduction to Business

Human Relations in Management

Pursuit Pathways

Certificates/Diplomas

Office Assistant Entrepreneurship Medical Coding Human Resources Medical Transcription Project Management Technical Accounting Medical Transcription

Global Perspectives in Business

Careers & Median Salary Information

Admin. Assistant \$35,800

Data Entry

\$32,500

Payroll Clerk \$42,100

Tax Preparer \$38,300

Bookkeeping \$37,800

Associate Degrees

Administrative Management **Business Admin.: Accounting** Business Admin.: Financial Services Health Information Technology Business Admin.: Management Business Admin. w/ Transfer Option

Careers & Median Salary Information

Executive Secretary \$50,000

Legal Secretary \$35,900

Bachelor Degrees

Business **Business Management Business Administration** Human Resources **Business Information Systems**

Careers & Median Salary Information

Marketing Manager \$91,600

Technical Writer \$57,300

Search Marketing Strategist Human Resources Manager \$71,300

\$95,700









Intro to Human Services

Behavior Management

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.

Exposure Pathways			
High School Courses		Job Shadows & Internships	
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 & Organ	nizations	Hockey Assistant Coaching	Tutorial Admin. Assistant Learn more & apply
LM Buddies	Student Ambassadors	Experience Pathways	
Ok Without Drugs and Alcohol	FCCLA		
TRY (Teens Reaching Youth)		College CTE Courses in	n High School

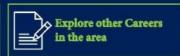
Venture Academics

Venture Behavioral Science (Intro to Psychology, Sociology, Intro to College Writing, Venture)









KCC Child Growth and Development

Exploring Teaching

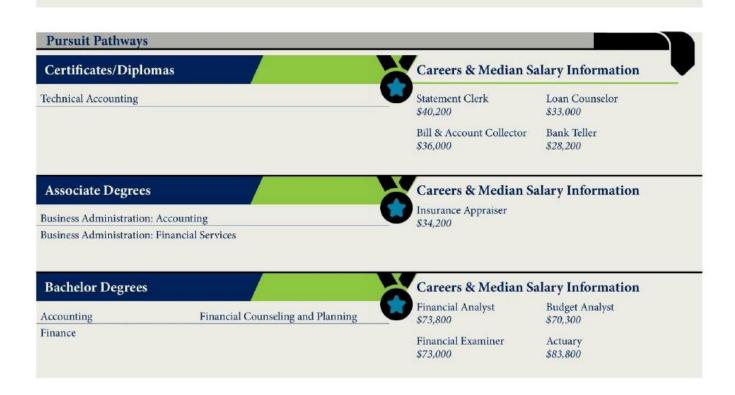
Career Pathway: Finance





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.

High School Courses		Job Shadows & Internships	
Personal Finance	Marketing	Accounting	Finance & Sales
Accounting Business/Consumer Law		Finance	
Advanced Accounting	Entrepreneurship	Thance	(?) Learn more & ap
Economics	Agriculture Business Foundations		93
AP Microeconomics Introduction to Business		High School Clubs & Organizations	
The ROAR store		FBLA (Future Busines	ss Leaders of America)
Venture Academics		Experience Patl	nways
Venture Inventrepreneurship (Entrepreneurship, Rhetoric, Venture)		College CTE Courses in High School	
Venture Applied Marketing (M	arketing, Digital Marketing, Rhetoric, Venture)	Mathematics and Soci	iety
		Personal Finance	
		Introduction to Busin	ess









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.

Exposure Pathways

High School Courses

Anatomy & Physiology Chemistry I Health II

General Biology AP Biology

Physics AP Chemistry

High School Clubs & Organizations

HOSA Science Club

Red Cross Club

Job Shadows & Internships

Chiropractic & Wellness Oncology

Nursing Optician

Dental Physical Therapy

Dietary Personal Trainer

Dermatology Radiology

Occupational Therapy Physician Assistant



Venture Academics

Venture Biomedical Science (PLTW Biomedical Science, Venture Biomedical Science)

Experience Pathways

College CTE Courses in High School

Human Anatomy I Medical Terminology
Human Anatomy II Exploring Health Careers

Nutrition

Kirkwood Career Academies

Emergency Medical Tech.(EMT) Pre-Prof. Health Careers Academy
Patient Care Academy

Pursuit Pathways

Certificates/Diplomas

Dental Assisting Pharmacy Technician

Medical Coding Surgical Technology

Medical Assisting Medical Transcription

Medical Transcription Nurse Aide

Practical Nursing (LPN) EMT

Careers & Median Salary Information

Licensed Practical & Licensed Vocational Nurse \$42,100

Ophthalmic Medical Tech \$41,500 Dental Lab Tech \$41,200

Dental Assistant \$40,300

Associate Degrees

Dental Assisting Exercise Science & Wellness Occupational Therapy

Dental Hygiene Health Information Tech. Paramedic

Dental Technology Medical Assisting Physical Therapy Assistant

Diagnostic Assistant (Rad. Tech.) Medical Laboratory Tech. Respiratory Therapist

Electroneurodiagnostic Tech. Associate Degree Nursing, RN Surgical Technology

Careers & Median Salary Inf.

Dental Hygienist Registered Nurse \$69,100 \$69,100 Wise Diagnostic Medical Histotechnologist

Sonographer \$62,800 \$48,400

Bachelor Degrees

Biology Culinary Food Science,

Dietetics Diet and Exercise

Healthcare Administration Food Science & Global Health Studies

Nursing

Careers & Median Salary Information

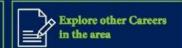
Clinical Research Coordinator Natural Science Manager \$111,800 \$111,700

Clinical Data Manager \$65,200 Recreational Therapist

\$52,200







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.

Exposure Pathways High School Courses Job Shadows & Internships Law and Constitution AP French City Clerk Presidential Campaign Government Spanish 5 Congressional Campaign Civl Rights AP Government Intermediate Spanish I Learn more & apply Business/Consumer Law Intermediate Spanish II **Experience Pathways** High School Clubs & Organizations College CTE Courses in High School Young Democrats Model UN Introduction to Criminal Justice Young Republicans Social Problems Cultural Anthropology Venture Academics Venture Civics (Government, State and Local Government, Venture, Rhetoric) **Pursuit Pathways** Careers & Median Salary Information Certificates/Diplomas Administrative Service Office Assistant Postmaster \$49,900 Manager \$83,900 Meter Reader Postal Service Mail Carrier \$36,000 \$50,000 Careers & Median Salary Information **Associate Degrees Business Administration** Administrative Management \$73,200 Business Administration: Management Water Environmental Technology

Bachelor Degrees

Urban Planning Accounting

Public Administration



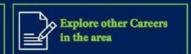
Careers & Median Salary Information

Statistical Assistant Legislator \$51,100 \$22,100

Social and Community Service Manager \$54,300 Financial Examiner \$72,900







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 & Int	Job Shadows & Internships	
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		High School Club	s & Organizations	
College CTE Courses	in High School	FCCA		









Career Pathway: Human Services





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.

Exposure Pathways High School Courses

Introductory Psychology KCC Child Growth and Development Sociology Exploring Teaching AP Psychology Behavior Management

Human Growth and Development

Job Shadows & Internships

Activity Coordinator	Therapist Assistant
Event Planning	Waypoint Ambassador
Medical Clinic	Volunteer Coordinator



High School Clubs & Organizations

Best Buddies	TRY (Teens Reaching Youth)	
SODA (Students Ok Without	Student Ambassadors	
Drugs and Alcohol)	FCCA	

Venture Academics

Venture Behavioral Science (Intro to Psychology, Sociology, Rhetoric, Venture)

Venture Exploring Education (Child Growth and Development, Exploring Teaching, Behavior Management, Venture)

Experience Pathways

College CTE Courses in High School

Marriage and Family	KCC Child Growth and Dev.
Social Problems	Exploring Teaching
Introductory to Sociology	Behavior Management
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Introduction to Criminal Justice

Pursuit Pathways

Certificates/Diplomas

Early Childhood Paraeducator Early Childhood Education



Careers & Median Salary Information

Preschool Teacher Nanny \$26,000 \$19,300

Childcare Worker Fitness Trainer \$19,300 \$37,700

Associate Degrees

Early Childhood Education Human Services



Careers & Median Salary Information

Funeral Service Manager \$54,000

Bachelor Degrees

Elementary Education

Social Work Psychology



Careers & Median Salary Information

Social & Community Service Manager \$54,300

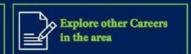
Religious Activities & Education \$42,000

Elementary Teacher \$52,000

Social & Community Service Officer \$54,300







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.

Exposure Pathways

High School Courses

Computer Science Essentials PLTW Digital Electronics Computer Science Principles Cybersecurity AP Computer Science

High School Clubs & Organizations

Technology Club Robotics

Job Shadows & Internships

Quality Analyst Software Development Computer Technician Technology Support Information Tech Web Development

IT/Help Desk



Experience Pathways

College CTE Courses in High School

PLTW Computer Science Essentials PLTW Computer Science Applications

PLTW Computer Science Principles PLTW Digital Electronics

Pursuit Pathways

Certificates/Diplomas

Database Technologies Web Design Java Programming Network Security Mobile App Development Network and System Administration .NET Programming PC Technician Healthcare IT Technician Desktop Customer Service Web Development

Careers & Median Salary Information

Statement Clerk Loan Counselor \$40,200 \$33,000

Bill & Account Collector Bank Teller \$36,000 \$28,200

Associate Degrees

Computer Software Development Web Technologies Network and System Administration Computer Support Specialist

Graphic Communication Technology

Careers & Median Salary Information

Computer Operator \$46,200

Bachelor Degrees

Technology Business Analytics & Information Systems Technology and Engineering Education **Technical Communication**

Technology Management

Careers & Median Salary Information

Computer & Info. Systems Manger \$123,600

Database Administrator \$80,000

Computer Hardware

Software Developer \$88,000

Engineer \$85,600







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.

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High School Courses

Government	AP Comparative Government
Law & the Constitution	Sociology
AP American Government	Media Information Literacy

High School Clubs & Organizations

Debate Club	Republicans of Linn-Mar
Democrats of Linn-Mar	Model United Nations

Job Shadows & Internships

Legal Administrative Assistant	Receptionist & Security
Legal Support	Safety & Security
Police Officer	



Experience Pathways

College CTE Courses in High School

Introduction to Criminal Justice Introduction to Sociology

Social Problems

Kirkwood Career Academies

Emergency Medical Technician

Venture Academics

Venture Civics (Government, State and Local Government, Venture)

Pursuit Pathways

Certificates/Diplomas

Entry-Level Firefighter Entry-Level Firefighter

Emergency Medical Technician

Careers & Median Salary Information

Legal Secretary Fire Inspector \$36,000 \$70,000

Correctional Officer Fire Fighter \$50,700 \$67,600

Associate Degrees

Criminal Justice Paralegal Studies
Entry-Level Firefighter Paramedic



Careers & Median Salary Information

Paralegal \$44,000

Bachelor Degrees

Criminology

Public Health Linguistics



Careers & Median Salary Information

Private Detective Intelligence Analyst \$75,000 \$58,000

Loss Prevention Manager \$63,400

Arbitrator, Mediator & Conciliator \$81,500







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.

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High School Courses		Job Shadov	ws & Internships	
PLTW Computer Integrated Man.	PLTW Principles of Engineering	Welding		
Computer Aided Drafting	Woods	(?) Learn r	Learn more & apply	
Metals	Digital Electronics			A 13
PLTW Intro to Engineering	Cabinetmaking	High Scho	ol Clubs & Organ	izations
		Robotics	Femineers	SkillsUSA

Experience Pathways

College CTE Courses in High School

Intro to 3D Printing

Intro to Parametric Solid Modeling

Kirkwood Career Academies

Advanced Manufacturing with Robotics & Welding

Pursuit Pathways

Certificates/Diplomas

Industrial Robotics Certificate CAD/Mechanical Engineering Tec.

Entry-Level Welding HVAC Installer

CNC Machining Technology Electronics Engineering Technology

Plumbing Pre-Apprenticeship

Careers & Median Salary Information

Radio Mechanic \$77,000

Elevator Installer \$57,200 Industrial Machinery Mechanic \$53,300

Tool and Die Makers \$45,000

Associate Degrees

Advanced Manufacturing & Robotics Tech. Electronics Engineering Tech.

Advanced Welding Tech.

Automation & Instrumentation Tech.

CNC Machining Tech.

Industrial Maintenance

Careers & Median Salary Information

Robotic Technician \$49,000

Computer, Automated Teller, and Office Machine Repairer \$36,000 Methane/Landfill Gas Generation System Technicians \$55,000

Bachelor Degrees

Aerospace Engineering Manufacturing Technology
Mechanical Engineering

Careers & Median Salary Information

Industrial Production Manager \$91,000

Quality Control Systems Managers \$91,000 Industrial Engineers \$79,000

Environmental Engineering Technicians \$41,000







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.

Exposure Pathways		
High School Courses		Job Shadows & Internships
Personal Finance Accounting Advanced Accounting Economics AP Microeconomics theROARstore	Business/Consumer Law Entrepreneurship Agriculture Business Foundations Graphics One Graphics Two Introduction to Business	Business Development & Event Promotions Market Research Analyst Marketing & Communications High School Clubs & Organizations Future Business Leaders of America
Marketing Experience Pathways		
College CTE Courses in Introduction to Business	Personal Finance	
Venture Academics		

Venture Advanced Business (Business/Consumer Law, Entrepreneurship, Intro to College Writing, Venture)

Venture Digital Design & Communications (Graphics One, Graphics Two, Digital Photography, Venture)

Pursuit Pathways

Retail Marketing Social Media Marketing Sales Office Assistant

Careers & Median Salary Information

Demonstrators & Product Parts Salespersons
Promoters \$34,000

\$24,000 Telemarketers Real Estate Sales Agents \$28,600

Associate Degrees

Business Administration: Marketing Apparel Merchandising Management



\$48,000

Careers & Median Salary Information

Procurement Clerks Assessors \$42,000 \$73,000

Bachelor Degrees

Marketing Communication Studies

Advertising and Digital Media



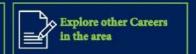
Careers & Median Salary Information

Online Merchants Sales Engineers \$59,000 \$87,000

Sales Managers Appraisers, Real Estate \$98,000 \$73,000







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.

High School Courses	Job Shadows & Intern	nships
Mechanical Drawing Metals	Auto Mechanic Assistant	Flight Operations
High School Clubs & Organizations	Diesel Technician	Learn more &
Robotics SkillsUSA		
Experience Pathways		
Kirkwood Career Academies		
Automotive Technology & Collision Repair		
Pursuit Pathways		
Certificates/Diplomas	Careers & Median Sa	alary Information
Automotive Collision Repair	Transportation Vehicle, Equipment and Systems	Cargo and Freight Agents \$33,000
	Inspectors \$83,000	Traffic Technicians
	Customs Brokers \$59,000	\$31,000
		alary Information
Associate Degrees	Careers & Median Sa	aidi y illioi illation
	Aviation Inspectors	Signal and Track Switch
	The second secon	A series and the series are the series and the series are the series and the series are the seri
Automotive Technology Diesel Truck Technology	Aviation Inspectors	Signal and Track Switch Repairers
Automotive Technology Diesel Truck Technology Diesel Ag Technology	Aviation Inspectors \$83,000	Signal and Track Switch Repairers \$36,000
Automotive Technology Diesel Truck Technology	Aviation Inspectors	Signal and Track Switch Repairers \$36,000







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					
High School Courses					
Algebra 2	Physics	PLTW Digital Electronics	Food Science & Safety		
Pre-Calculus	AP Chemistry	PLTW Engineering Design & Development	Animal and Plant Biotechnology		
AP Calculus AB	AP Biology	Mechanical Drawing	Agricultural Research & Development		
AP Calculus BC	AP Physics	Introduction to Agriculture, Food & Ntrl Resources			
AP Statistics	Anatomy & Physiology	Aquaculture Science			
Astronomy	Geology	Principles of Agricultural Science-Animal			
Meteorology	PLTW Intro to Engineering	Principles of Agricultural Science-Plant			
Bioethics	PLTW Principles of Engineering	Natural Resources and Ecology			
AP Envmntl Science	PLTW Aerospace Engineering	Environmental Science Issues			
Chemistry 1	PLTW Computer Integrated Mfg	Cybersecurity			
Earth & Space Science	PLTW Civil Engineering & Archite	ect Dsgn			

Job Shadows & Internships

Analytical Chemistry Research	Conservation Biology Research
CAD Design	Organic Chemistry Assistant
Chemistry Lab	Wastewater Plant Operations &
Civil & Electrical Engineering	Maintenance



High School Clubs & Organizations

Femineers	Science Club	SkillsUSA
Pohotice	Math Club	

Venture Academics

Venture Earth Science (Earth Science, Venture Earth Science)

Venture Biology (General Biology, Rhetoric, Venture Biology)

Venture Environmental Science (AP Environmental Science, Venture)

Venture Biomedical Science (PLTW Biomedical Science, Venture Biomedical Science)

Experience Pathways

College CTE Courses in High School

Math and Society	Human Anatomy I	
Nutrition	Human Anatomy II	

Kirkwood Career Academies

Adv.Man.with Robotics & Welding Technology Architectural & Engineering Pre-Professional Health Careers

Pursuit Pathways

Certificates/Diplomas

Industrial Robotics

Network Security

Database Technologies

Network & System Admin.

Java Programming

PC Technician

Mobile App Development

CAD/Mechanical Eng. Tech.

NET Programming

Desktop Customer Service

Healthcare IT Technician

Electromechanical Tech.

Careers & Median Salary Information

Civil Engineering Technicians \$50,000 Food Science Technicians \$46,000

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.

Careers & Median Salary Information

Chemical Technicians \$41,500 Fuel Cell Technicians \$54,000

Surveying Technicians \$51,000

Bach	elor	Deer	rees

Energy Production & Distribution

3//	
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 Syster
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 Civil Engineers \$76,000

Chemists \$79,000

Marine Engineers \$64,000

Materials Engineers

\$75,400

Biochemical Engineers

\$71,000





