

Linn-Mar High School Program of Studies

## Inspire Learning.Unlock Potential. Empower Achievement.

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## KEY

NCAS
Regents Admissions Index (RAI) approved course

## NCAA approved course

Project Lead the Way


Talented and Gifted Program Course


Curriculum for Agricultural Science Education


Online Course


Blended Course

Virtual Course


## Supportive Services for Program Options



## Linn-Mar Learning

 Center

Credit Recoveryl
Completion
RTI - Response to Intervention Sessions

## College and Career Center

## 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 lowa to recognize students who have attained proficiency in two or more languages to include English, by high school graduation.


The Seal of Biliteracy:

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

To be eligible to be awarded the lowa 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 $\mathrm{Cr} / \mathrm{F}$ during the high school career. A grade C- (70\%) or higher must be earned to receive credit. Grades lower than C - will receive an F grade. Students must choose this option by the end of the $5^{\text {th }}$ week for block classes and by the end of the $10^{\text {th }}$ week for semester/traditional classes.

## Drop/Add Deadlines

A student must add a new block course before the end of the $3^{\text {rd }}$ day of a new grading period. A new Math, Music, Foreign Language, or early-bird course must be added before the end of the $5^{\text {th }}$ day of a new semester. A student must drop a block course before the end of the $4^{\text {th }}$ week of a given grading period. A 45 minute "skinny" course must be dropped before the end of the $8^{\text {th }}$ 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.
- Science - 30 credits. 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), or AP Physics 1\&2 (20 credits)).
- Social Studies - 30 credits. 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).
- Personal Finance -5 credits. 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.
- Health/Fitness - 20 credits. 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 ${ }^{\circledR}$ offerings.

Fully online students may use Edmentum ${ }^{\circledR}$ coursework to meet LMCSD established graduation requirements. Students NOT fully online may not use Edmentum ${ }^{\circledR}$ 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 lowa 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 lowa Core and content standards in subject areas not included in the lowa 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 INC or NC (Incomplete or No Credit) will be used to indicate insufficient evidence to assess learning. Category titles and descriptions used in the LMHS standard proficiency scale are subject to update. In addition to standards reporting, a traditional course letter grade will be calculated from individual student performance scores and recorded on the student's personal school transcript. The conversion scale on page 10 will be used to calculate the traditional course letter grade.

## Standard Proficiency Scale

| Score | Level | Description |
| :---: | :---: | :---: |
| 4 | Exemplary | Student shows in-depth inferences and application in class as taught by the teacher in addition to meeting the standard, such as explaining or demonstrating connections between ideas. <br> Examples could include: <br> - real-world application <br> - use of information to solve problems in a different context <br> - demonstration of unique insight or complex understanding <br> - use of advanced analysis skills <br> - demonstration of creative application of skills |
| 3.5 |  | In addition to score 3.0 performance, in-depth inferences and applications are demonstrated 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. |
| INC/NC | Incomplete | No evidence demonstrating knowledge of the standard. |

## Proficiency Scale Conversion

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


## $9^{\text {th }}$ Grade

- lowa Statewide Assessment of Student Progress (ISASP) (required)


## $10^{\text {th }}$ 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


## $11^{\text {th }}$ 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


## $12^{\text {th }}$ Grade

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

[^0]
## Linn-Mar High School



## Linn-Mar Core



## English

## Enolish I Path

PR=Prerequisite
Requirement


## Venture English Strand

 ENG703Grade: 10-12, 20 Credits

ENG120 Rhetoric
ENG 315 English III
ENG703 Venture English

## 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

 PathPR=Prerequisite


## Graduation Requirements

- 40 credits of English (will include at least 1 elective)
English Electives p. 15
- English I or Advanced English I
- English III or Advanced English III
- Speech or Acting


## Linn-Mar Program of Studies

## English Electives

## PR=Prerequisite Requirement

## Academic Literacy I

 ENG105Grades: 9-10
PR: Placement

Academic Literacy II ENG205
Grades: 9-10 PR: Placement

The above courses may be required for individual students


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

Classics

## ENG350

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

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


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

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



AP English Literature and Composition
ENG511 \& ENG512
Grades: 11-12
PR: English III or
Advanced English III

## Academic Literacy I

Course \#:
ENG105
Grade Level: $\quad 9-10$
Credits:
Length:
Format:
Prerequisite:
5
1 Semester
Skinny
approval
Considerations: Students are placed in this course per recommendation of the $8^{\text {th }}$ 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.

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

## English I

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

$$
\begin{aligned}
& \text { ENG110 } \\
& 9 \\
& 10 \\
& 2 \text { Quarters } \\
& \text { Block } \\
& \text { None }
\end{aligned}
$$

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.

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

## Considerations:

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

Not offered as a standalone class.
Course Description: This course is designed for Venture Academics. Students will work on three foundational skills: reading, writing, and speaking relative to the strand focus.

## Advanced English 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.

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

## Academic Literacy II

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

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

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


Course \#:
Grade Level: 10
Credits: 10
Length: 2 Quarters
Format: Block
Prerequisite:
English I or Advanced English I

Considerations: See prerequisite. Fulfills the $10^{\text {th }}$ 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.

| Journalism |  |  |
| :--- | :--- | :--- |
| Course \#: |  | ENG220 |
| Grade Level: | $10-12$ |  |
| Credits: | 5 |  |
| Length: |  | 1 Quarter |
| Format: |  | Block |
| Prerequisite: |  | English II, English III, or |
|  | English Department  <br>  approval |  |
|  |  |  |

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

Advanced English II

| Course \#: | ENG215 |  |
| :--- | :--- | :--- |
| Grade Level: | $10-12$ |  |
| Credits: | 10 |  |
| Length: | 2 Quarters |  |
| Format: | Block |  |
| Prerequisite: | English I or Advanced |  |
|  | English I |  |

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

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

The following texts will be covered in class:

- Selection of short pieces of fiction and nonfiction from American authors and those outside of the global North
- I am Malala
- Love Hate \& Other Filters
- Fahrenheit 451
- A literary circle novel (The Fishermen, Under the Udala Trees, No Friend but the Mountains)
- Possible additional texts (Of Mice and Men, 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
- I Know Why the Caged Bird Sings
- A Raisin in the Sun


## Venture English Strand (English III)

## Course \#:

Grade Level:
Credits:
Length:
Format:
Prerequisite:

ENG702
10-12
20
Semester


SuperBlock (2 Blocks)
English II or English
Department approval


Courses: ENG315 and ENG120. Students that successful complete both courses will meet English III and speech graduation requirements.

Course Description: This course covers the same content as ENG315 in a project-based, hands-on, and 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 111 to learn more about the Venture program.

## Speech

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


$$
11-12
$$

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

Considerations: 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 $11^{\text {th }}$ 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:
Prerequisite: English II or English Department approval
Considerations: 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
- I Know Why the Caged Bird Sings
- The Crucible
- Selections of poetry from Walt Whitman, Emily Dickinson, and other American poets
- Short pieces of fiction and nonfiction from American authors


## British Literature

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

ENG340


NCAS
10-12
5
1 Quarter
Block
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 \#:
Grade Level:
ENG350
11-12
Credits:
5
Length:
1 Quarter
Block
Format:
Prerequisite:
Considerations: See prerequisites.
Course Description: 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 |

Considerations: 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:
Length:
Format:
Prerequisite:

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

Considerations: 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.

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

| Literature of a Selected Author |  |
| :--- | :--- |
| Course \#: | ENG380 |
| Grade Level: | $10-12$ |
| Credits: | 5 |
| Length: | 1 Quarter |
| Format: | Block |
| Prerequisite: | English II, English III, or |
|  | English Department |
|  | approval |

Considerations: See prerequisites. This is an advanced, college preparatory literature course.

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

Communications
Course \#:
ENG390
N
 Grade Level: 10-12
Credits:
5
Length:
Format:
Prerequisite:
1 Semester
SuperBlock
English I or Advanced English I

Considerations: 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

ENG410
Grade Level: 10-12
Credits: 5
Length: 1 Quarter
Format:
Prerequisite:

Block
English II or English Department approval

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

## College Writing

Course \#:
Grade Level:
ENG420
11-12
Credits
Length:
Format:
Prerequisite:

5
1 Quarter
Block
English III or
Adv. English III

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

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

College Grammar
Course \#: ENG430
Grade Level: 10-12
Credits: 5
Length:
Format:
Prerequisite:
1 Quarter
Block
English II or English
Department approval
Considerations: See prerequisites.
Course Description: 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.
Course Description: This course is designed for students who wish to improve their reading rate and comprehension skills in order to be successful in their studies beyond high school.

## Composition I

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

ENG460 or ENG460E
11-12
5 (LM), 3 (KW)
1 Quarter Block
English III or
Adv. English III AND
qualifying placement score

Considerations: 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 \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:


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

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

AP English Literature and Composition
Course \#: ENG512

Grade Level: 11-12
Credits:
10
Length: 2 Quarters
Format:
Prerequisite:
Block
Advanced English III is strongly recommended

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

| $l$ | English Language |
| :--- | :--- |
| Course \#: | ENG140 |
| 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.

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

## English Language Learners

Course \#: ENG145
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.

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.

English Language Learners II
Course \#: ENG245

Grade Level: 9-12
Credits: 10
Length: 2 Semesters
Format:
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.

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

## English Language Learners III

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

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

Course Description: This course is designed to continue to develop students' 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 |

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

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

## English Language Learners

 Directed StudiesCourse \#: ELL001DS
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.

Course Description: This course is designed to assist students with their other academic classes. Supports provided include help with understanding the expectations and assignments for classes, 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.

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

| $l$ | Work Experience - Yearbook |
| :--- | :--- |
| Course \#: | GUI411 |
| Grade Level: | $9-12$ |
| Credits: | 10 |
| Length: | 2 Semesters |
| Format: | Skinny- Early Bird (7:45- |
|  | 8:20 AM) |
| Prerequisite: | Instructor approval |

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

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

## Foreign Language



## Level I French

Course \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
Considerations: None
Course Description: This course develops the communicative skills of reading, writing, speaking, and listening. Basic grammar concepts and vocabulary are introduced. The target language is used during class time. 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 verbs, and irregular verbs avoir, etre, faire, aller, venir as well as stem changing verbs acheter and preferer and the -re group of verbs. Students also learn possessive adjectives and the near future.

## Level I Spanish

Course \#:
Grade Level:
FOR130


Credits:
Length:
Format:
Prerequisite: None
Considerations: None
Course Description: This course develops the communicative skills of reading, writing, speaking, and listening. Basic grammar concepts and vocabulary are introduced. The target language is used during class time.

Topics include school schedules and subjects, 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 |

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

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

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

Level II Spanish
Course \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
Considerations: Second term grade of 60\% or higher in Level I is required.

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

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

Grammar concepts include possessive adjectives, comparatives and superlatives, direct object and indirect object pronouns, affirmative 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 \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite: French II
Considerations: Second term grade of $60 \%$ or higher in level II is required.

Course Description: This course continues to develop and refine the communicative skills of reading, writing, speaking, and listening. Complex grammar concepts are introduced. The target language will be widely utilized. The culture focus in French 3 is the Francophone world.

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

Level III Spanish Course \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
Considerations: Second term grade of $60 \%$ or higher in Level II is required.

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

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

Level IV French
Course \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite: French III
Considerations: Second term grade of $60 \%$ 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. The culture focus in French 4 is the Francophone world to help prepare for AP French.

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

Level IV Spanish
Course \#:
Grade Level: 11-12
Credits: 10
Length: $\quad 1$ or 2 Semester(s)
Format: Block or Skinny
Prerequisite: Spanish III
Considerations: Grade of $60 \%$ 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.

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

## Spanish IV Culture

## Course \#:

 FOR435Grade Level: 11-12
Credits:
Length:
Format:
Prerequisite:

## 5

1 Semester
SuperBlock
Spanish III
Course Description: Spanish IV Culture is a companion course to Venture Spanish IV Culture and Community. Students will learn about various aspects of the Spanish culture in authentic settings. Different Spanish cultures around the world will be studied including Western European and Latin American cultures.

Venture Spanish IV Culture and Community
Course \#: FOR70
Grade Level: 11-12

Credits: 20
Length: Semester
Format: SuperBlock (2 Blocks)
Prerequisite: Spanish III
Courses: FOR430 Spanish IV ( 10 credits) and FOR435 Spanish IV Culture ( 5 credits), and Venture Spanish IV Culture and Community (5 credits) are included.

Course Description: This course covers the same content as FOR430 in a project-based, hands-on, and community-engaged way. Students will learn from and be mentored by professionals in the community, and learn important skills such as collaboration, communication, creativity, critical thinking, and time management as they complete projects. See page 111 to learn more about the Venture program.

Level V Spanish

Course \#: FOR530
Grade Level: 12
Credits:
Length:
Format:
Prerequisite:
Considerations: Second term grade of 60\% 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.

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.

## Intermediate

Spanish I KCC
Course \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:


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

Considerations: See prerequisite. Class is conducted in Spanish.

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

## Intermediate

## Spanish II KCC

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

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

Considerations: See prerequisite. Class is conducted in Spanish.

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

Advanced Placement French
Course \#: FOR570
Grade Level: 12
Credits:
Length:
Format:
Prerequisite: French IV
Considerations: See prerequisite. Class is conducted in French.

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

## Mathematics



Adv Placement Statistics MAT530

## Grade: 10-12

PR: Algebra 2A or Algebra 2

## Algebra Foundations

Course \#: MAT114 and MAT116
Grade Level: 9
Credits:
Length:
Format:
Prerequisite:
Subsequent:
Considerations: A scientific calculator or its equivalent required.

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

Algebra 1A
Course \#:
MAT150
Grade Level:
9-12
Credits:
Length:
Format:
Prerequisite: Algebra Foundations, PreAlgebra, or Math 8
Subsequent: Algebra 1B
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 \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
Subsequent:

MAT155

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

Considerations: Students are placed in this course per approval of the math department based on Pre-Algebra and lowa 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 |
| Subsequent: $\quad$ Algebra Foundations |  |
| Geometry |  |

## Geometry Priority Standards

| Course \#: | MAT220PS |
| :--- | :--- |
| Grade Level: | $9-12$ |
| Credits: | 2.5 |
| Length: | 1 Quarter |
| Format: | Skinny |
| Prerequisite: | Teacher and/or Counselor <br> recommendation, <br> concurrent enrollment in <br> Geometry |
|  |  |

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

Course Description: This course develops mathematical skills focused on the priority standards of Geometry. These topics include points, lines, planes, polygons, circles, solid figures, and their associated relationships as a mathematical system. Emphasis is placed on the application of knowledge in algebraic and proof contexts.
"Credit earned for Priority Standards classes does not count toward the 30-credit math graduation requirement."

| Algebra 2 Priority Standards |  |
| :--- | :--- |
| Course \#: | MAT290PS |
| Grade Level: | $9-12$ |
| Credits: | 2.5 |
| Length: | 1 Quarter |
| Format: | Skinny |
| Prerequisite: | Teacher and/or Counselor <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br> cecommendarion, <br>  <br> Algebra 2 enrollment in |

Considerations: Students are placed into this course by recommendation of a mathematics teacher or school counselor. This course is designed for students who struggle with the core concepts of Algebra 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 \#:
Grade Level:
MAT220
9-12


Credits:
Length:
Format:
Prerequisite:
Subsequent:

10
2 Semesters
Skinny
Algebra 1 or Algebra 1B
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 2B

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

## MAT305

10-12
10
2 Semesters
Skinny
Algebra 2A
Pre-Calculus (recommended) or AP Statistics or Mathematics \& Society

Considerations: A graphing calculator is required. TI89 or TI-Nspire calculators are NOT allowed.
Earns 0.5 units of NCAA mathematics credit.
Course Description: This course covers all topics in Algebra 2, not included in Algebra 2A: conic sections, sequences and series, statistics, and probability. There is a heavy emphasis on trigonometric functions, trigonometric identities, and trigonometric equations.

| Algebra 2 |  |
| :--- | :--- |
| Course \#: | MAT315 |
| Grade Level: | $9-12$ |
| Credits: | 10 |
| Length: | 2 Semesters |
| Format: | Skinny |
| Prerequisite: | Geometry <br> Subsequent: <br>  <br>  <br>  <br>  <br> Pre-Calculus (recommended) <br> or Mathematics \& Society <br> 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.

## Pre-Calculus

Course \#:
Grade Level:
MAT420


9-12
Credits: 10
Length:
Format:
Prerequisite:
Subsequent: AP Calculus (recommended) or Mathematics \& Society or AP Statistics

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

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

| Advanced Placement |  |
| :--- | :--- |
| Calculus (AB) |  |
| Course \#: | MAT510 |
| Grade Level: | $10-12$ |
| Credits: | 10 |
| Length: | 2 Semesters |
| Format: | Skinny |
| Prerequisite: | Pre-Calculus |

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

Course Description: AP Calculus AB is roughly equivalent to a first semester college Calculus I course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. You 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.


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

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


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

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

Mathematics and Society KCC Course \#: MAT415
Grade Level: $\quad 12^{\text {th }}$ Grade Only
Credits:
5 (L-M) 3 (KCC)
Length:
Format:
Prerequisite:
1 Semester
Skinny
Three years of High School math

Considerations: See prerequisite. This is a dualcredit course, and the expectations reflect those of a college course. In order to take this class, the student needs to register as a Kirkwood student earning college credit in high school by using this link:
https://www.kirkwood.edu/site/index.php?d=725.
An additional requirement is an ACT score of 19 or higher OR a score of 30 or higher on the ALEKS math placement test
(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.

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

## 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.


## Science Electives

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


| Earth Science |  | SCl125 |
| :--- | :--- | :--- |
| Course \#: |  | $9-10$ |
| Grade Level: |  | 10 |
| Credits: |  | 2 Quarters |
| Length: |  | Block |
| Format: |  |  |
| Prerequisite: | None |  |

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

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

## General Biology

 Course \#:SCl210


Grade Level: 9-12
Credits:
Length: 10

Format:
2 Quarters
Prerequisite:
Block
none
Considerations: General Biology is a NGSS course based on the completion of NGSS Life Science Standards, and successful completion will meet the life science requirement. Students taking this course should have a strong comprehensive vocabulary, reading and study skills.

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

Venture Earth Science Strand
Course \#: SCI701
NCAS

Grade Level: 9-10
Credits:

Length:
Format:
Prerequisite: Elective) None

20 (10 Earth, 5 English, 5
Semester
SuperBlock (2 Blocks)

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

Course Description: This course covers the same content as SCl125 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 111 to learn more about the Venture program.

Venture Life Science Strand (Biology)

| Course \#: | SCI702 | Sind |
| :--- | :--- | :--- |
| Grade Level: | $9-12$ |  |

Credits: $\quad 20$ (10 Bio, 5 English, 5 Elective.)
Length:
Format:
Prerequisite:
Semester
SuperBlock (2 Blocks) none

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

Course Description: This course covers the same content as SCl210 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 111 to learn more about the Venture program.

## Chemistry I

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

## Organic Chemistry

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

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

Earth and Space Science
Course \#: SCl340

Grade Level: 10-12

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

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

| Physics I |  |  |
| :---: | :---: | :---: |
| Course \#: | SCI350 |  |
| Grade Level: | 10-12 |  |
| Credits: | 10 |  |
| Length: | 2 Quarters |  |
| Format: | Block |  |
| Prerequisite: | Geometry |  |
| Consideration completion of N and successful portion of the requirement. S completed Geo | ysics I is bas Physical Scie letion will mee l science grad s taking this | $d$ on the ce Standards the physics uation urse must have |
| Course Descri examine the fu the physical w motion, forces | This course ntal propertie hese properti ntum, energy | s designed to and laws of sinclude and waves. |

Applied Physics and Chemistry

| Course \#: | SCI360 |
| :--- | :--- |
| Grade Level: | $10-12$ |
| Credits: | 10 |
| Length: | 2 Quarters |
| Format: | Block |
| Prerequisite: | Algebra |

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

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

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

$$
\begin{aligned}
& \text { SCI370 } \\
& 10-12 \\
& 5 \\
& \text { 1 Quarter } \\
& \text { Block } \\
& \text { General Biology }
\end{aligned}
$$

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

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.

Geology
Course \#:
Grade Level
SCI380
Credits:
Length:
Format:
Prerequisite: $\quad$ Geometry and Chemistry 1 or Applied Chemistry and Physics

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

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

| Astronomy |  |  |
| :--- | :--- | :--- |
| Course \#: | SCl390 |  |
| Grade Level: | $11-12$ |  |
| Credits: | 5 | 1 Quarter |
| Length: |  | Block |
| Format: | Geometry and Applied |  |
| Prerequisite: |  | Chemistry and Physics or |
|  | Chemistry I |  |

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

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

| Meteorology |  |
| :--- | :--- |
| Course \#: | SCI395 |
| Grade Level: | $11-12$ |
| Credits: | 5 |
| Length: | 1 Quarter |
| Format: | Block |
| Prerequisite: | Geometry and Applied <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br> Chemistry and Physics or Chemistry I |

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

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

## Anatomy \& Physiology

 Course \#: SCI410
Grade Level: 10-12
Credits:
Length:
10
Format:
2 Quarters
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 \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:

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

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

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

## Advanced Placement Chemistry 1 \& 2 <br> Course \#: <br> Grade Level: <br> Credits: <br> Length: <br> Format: <br> Prerequisite: <br> SCI521 \& SCI522 <br> 10-12 <br> 15 <br> 3 Quarters <br> Block <br> Chemistry I and Advanced Algebra IIA

Considerations: Students MUST sign up for both sections listed above. Students taking this course should have completed Chemistry I and Advanced Algebra IIA. 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 |
| Format: | Block |
| Prerequisite: | Chemistry I AND Algebra 2A |

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

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, electricity, and waves.

Advanced Placement Physics 2
Course \#: SCI532 NCRA

Grade Level: 10-12
Credits: 10
Length: 2 Quarters
Format:
Block
Prerequisite: AP Physics I or Physics I
Considerations: Physics I or AP Physics 1 is a prerequisite for this class. Students may take the AP Physics 2 exam in May.

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

## Environmental Sustainability

$\begin{array}{lll}\text { (Previously was Biotechnical Engineering) } \\ \text { Course \#: } & \text { SCI620 } \\ \text { Grade Level: } & 10-12\end{array}$
Credits:
Length:
Format:
Prerequisite:

## 10

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

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

## Advanced Placement

## Environmental Science 1 \& 2

Course \#: SCl541 \& SCl542

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.

Venture Advanced Placement
Environmental Science 1 \& 2 Strand

| Course \#: | SCl703 |
| :--- | :--- | :--- |
| Grade Level: | $10-12$ |
| Credits: | $20(15$ AP Enviro, 5 |
|  | Elective) |
| Length: | Semester |
| Format: | SuperBlock (2 Blocks) |
| Prerequisite: | General Biology and |
|  | Algebra |

Courses: SCI540 (AP Environmental Science 1 \& 2), and ENG120. Students that successfully complete both courses will meet earth science and speech graduation requirements.

Course Description: This course covers the same content as SCl541 \& SCl542 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 111 to learn more about the Venture program.

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

## Social Studies

PR = Prerequisite Requirement

## Electives



Venture
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 \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
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 \#: SOC13
Grade Level:
Credits:
Length: 2 Quarters
Format:
Prerequisite:
Considerations: Recommended for students with a strong interest in reading and writing in history. Students successful in this course may move into the AP World History elective to satisfy their world history requirement. US History 9, Advanced US History 9 , or AP US History is required for graduation.

Course Description: This course explores the Gilded Age to present focusing on people, ideas, and events that have helped to create the nation and world we live in today. Strong emphasis is placed on developing skills in writing, 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 \#:
Grade Level:
SOC150
NㅗㅇN

Credits:
Length:
Format:
Prerequisite: None
Considerations: Students will be reading articles, analyzing sources, and using web-based applications.

Course Description: 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 \#:
Grade Level:


Credits:
Length:
Format:
Prerequisite:
SOC270
9-12
10
2 Quarters
Block
None
Considerations: See prerequisites. World History OR AP World History is required for graduation.

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

## Economics

Course \#:
Grade Level:
SOC310
11-12
Credits:
5
Length:
Format:
Prerequisite:
Considerations: Students should be comfortable working with charts and tables.

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

| Law and the Constitution |  |
| :--- | :--- |
| Course \#: | SOC320 |
| Grade Level: | $10-12$ |
| Credits: | 5 |
| Length: | 1 Quarter |
| Format: | Block |
| Prerequisite: | none |

Considerations: Meets the social studies elective graduation requirement.

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

Considerations: Meets the Behavioral Sciences graduation requirement.

Course Description: 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 |

Considerations: 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.

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

State \& Local Government

## Course \#:

Grade Level:
SOC390
Credits:
Length:
Format:
Prerequisite:
11-12
5
1 Semester
SuperBlock
None

## 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 \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
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.


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 111 to learn more about the Venture program.

## Venture Behavioral Science Strand

| Course \#: | SOC702 |
| :--- | :--- |
| Grade Level: | $11-12$ |
| Credits: | 20 |
| 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 111 to learn more about the Venture program.

## Advanced Placement

American Government


Course \#: SOC500
Grade Level: $\quad$ 11-12 or approval
Credits: 10
Length: 2 Quarters during
second semester
$\begin{array}{ll}\text { Format: } & \text { Block } \\ \text { Prerequisite: } & \text { none }\end{array}$
Considerations: Instructor approval for $10^{\text {th }}$ graders. Fulfills the government graduation requirement. Students may take the American Government AP exam in May.

Course Description: 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 | WV |
| :--- | :--- |
| Comparative Government |  |
| Course \#: | SOC550 |
| Grade Level: | $11-12$ |
| Credits: | 5 |
| Length: | 2 Quarters |
| Format: | Block |
| Prerequisite: | US Govt. or |
|  | AP US Govt. |

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

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

Advanced Placement US History 1 \& 2 GMIV
BOARD OF
REGENTS

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

SOC521 \& SOC522
9-12
15
3 Quarters
Block
US History 9 OR
Advanced US History 9 is recommended

Considerations: Instructor approval for $9^{\text {th }}$ graders. Students MUST sign up for both sections listed above. Fulfills the US history graduation requirement. This course begins in $2^{\text {nd }}$ quarter. Students may take the US History AP exam in May.

Course Description: 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 <br> Psychology 1 \& 2 <br> Course \#: <br> Grade Level: 11-12 <br> Credits: 10 <br> Length: 2 Quarters <br> Format: Block <br> 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: history and approaches, states of consciousness, biological bases of behavior, cognition, testing and individual differences, sensation and perception, motivation and emotion, abnormal psychology and treatment, and social psychology. College level work is expected, as this is a college level course.

Advanced Placement World History 1 \& 2
Course \#:
Grade Level:
SOC541 \& SOC542
Credits:
Length: 10-12

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 $2^{\text {nd }}$ 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


Beginning Drawing ART115
Grade: 9-12 PR: None

PR: Prerequisite Requirement


Intermediate Level


Recommended

Advanced Level
Graphics Two ART420
Grade: 11-12
PR: Design Art Basics \&
'C' or better in Graphics One

Digital Photography ART400
Grade: 11-12
PR: None
Recommended: Design Art Basics

AP Art History 1 \& 2 ART511 \& ART512 Grade: 10-12 PR: None Design Art Basics Highly
PR: Design Art Basics

## Venture Digital Design and Communication

 ART701Grade: 10-12, 20 Credits ART400, ART410, ART420, ART701

## Construction in Clay

 ART225Grade: 10-12
PR: Beg. Ceramics \&
Design Art Basics

Expressive Drawing ART215
Grade: 10-12
PR: Beg. Drawing \&
Design Art Basics

2D Mixed Media ART235
Grade: 10-12 PR: Beg. Painting \&
Design Art Basics

Exploration in Ceramic

## Techniques ART325

Grade: 11-12
PR: Beg. Ceramics \& Design Art Basics
Recommended: Construction in Clay

Drawing in Style
ART 315
Grade: 11-12
PR: Beg. Drawing \&
Design Art Basics
Recommended: Expressive Drawing

## Advanced Art ART450

Grade: 11-12
PR: Design Art Basics, Drawing or Painting, and 3D Mixed or Ceramics

## Design Art Basics

Course \#: ART110
Grade Level: 9-12
Credits: $\quad 5$
Length:
Format:
Prerequisite: None
Considerations: This course is a basic design course which is highly recommended before taking any art course.

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

## Beginning Drawing

Course \#:
ART115
Grade Level: 9-12
Credits: $\quad 5$
Length: $\quad 1$ Quarter
Format:
Prerequisite:
Block
None
Considerations: This course is for the student that wants to improve their drawing skills. Design Art Basics is highly recommended.

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

## Beginning Ceramics

## Course \#: ART125

Grade Level: 9-12
Credits:
Length
Format
Prerequisite: None
Considerations: Design Art Basics is strongly encouraged before taking this course. Students will be required to take a written midterm, as well as a written final. Students may need to spend extra time in the studio to complete all course work. This class is for motivated, hands-on students.

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

## Beginning Painting

| Course \#: | ART135 |
| :--- | :--- |
| Grade Level: | $9-12$ |
| Credits: | 5 |
| Length | 1 Quarter |
| Format: | Block |
| Prerequisite: | None |

## Considerations: Design Art Basics

Course Description: 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.

## 3-D Mixed Media

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

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

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

## Expressive Drawing

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

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

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

## Construction in Clay

| Course \#: | ART225 |
| :--- | :--- |
| Grade Level: | $10-12$ |
| Credit Hours: | 5 |
| Length: | 1 Quarter |
| Format: | Block |
| Prerequisite: | Beginning Ceramics and |
|  | Design Art Basics |

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

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

## 2-D Mixed Media

| Course \#: |  | ART235 |
| :--- | :--- | :--- |
| Grade Level: |  | $10-12$ |
| Credits: | 5 |  |
| Length |  | 1 Quarter |
| Format: |  | Block |
| Prerequisite: | Design Art Basics <br> and Beginning Painting |  |

## Considerations:

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

## Drawing In Style

| Course \#: | ART315 |
| :--- | :--- |
| Grade Level: | $11-12$ |
| Credits: | 5 |
| Length: | 1 Quarter |
| Format: | Block |
| Prerequisite: | Beginning Drawing <br> and Design Art Basics |

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

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

| Exploration in Ceramic Technique |  |
| :--- | :--- |
| Course \#: | ART325 |
| Grade Level: | $11-12$ |
| Credits: | 5 |
| Length: | 1Quarter |
| Format: | Block |
| Prerequisite: | Beginning Ceramics and |
|  | Design Art Basics |

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

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

## Digital Photography

Course \#: ART400
Grade Level: 11-12
Credits:
5
Length:
Format:
Prerequisite: None
Considerations: Design Art Basics is strongly recommended before taking this class.

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

| $l$ | Venture Digital |
| :--- | :--- |
| Cesign Strand |  |
| Course \#: | ART701 |
| Grade Level: | $11-12$ |
| Credits: | 20 |
| Length: | Semester |
| Format: | SuperBlock (2 Blocks) |
| Prerequisite: | none |

Considerations: Design Art Basics is strongly recommended before taking this course.

Courses: ART400, ART410, and ART420.
Course Description: This course covers the same content as ART400, ART410, and ART420 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 111 to learn more about the Venture program. them.

Graphics One

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

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

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

## Graphics Two

| Course \# | ART420 |
| :--- | :--- |
| Grade Level: | $11-12$ |
| Credits: | 5 |
| Length | 1 Quarter |
| Format | Block |
| Prerequisite | "C" or better in Graphics |
|  | One \& Design Art Basics |

Considerations: The coursework relies heavily on the use of the Adobe Creative Suite, specifically Adobe Illustrator. The class requires students to be creative, independent, focused, and project driven. Student coursework will be cloud based utilizing the school shared drive as well as Power School Learning.
Course Description: Graphics Two continues to push the boundaries of design with in-depth rigorous approaches utilizing the skills learned in Graphics One. Projects will continue to challenge and polish a student's understanding of typography, grid, composition, \& layout. Students will have the opportunity to further develop their skills using the Adobe Creative Suite, as well as having access to iPad Pro's and Digital SLR Camera's. Additionally, all coursework will benefit students interested in developing a design portfolio.

## Advanced Art

## Course \#:

ART450

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

1) Design Art Basics
2) Painting or Drawing
3) 3-D Mixed or Ceramics

Considerations: $11^{\text {th }}$ and $12^{\text {th }}$ grade students only
Course Description: This class will emphasize preparing a portfolio for scholarship, college admission, and learning about art-related careers. Students will learn attitudes that promote independent idea development and problemsolving. They will explore selected ideas and media in depth in their development as beginning artist.

## AP Art History 1 \& 2

Course \#: Grade Level:
Credits:

## Length:

Format:
Prerequisite:

ART511 \& ART512
W 10-12
15
3 Quarters
Block
None, Design highly recommended

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

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

## Music

$\mathrm{PR}=$ Prerequisite Requirement

## Linn-Mar High

## School Band

## Procram



Symphonic Winds
MUS150B
Grade: 10-12
PR: Instructor
Approval


## Music

$\mathrm{PR}=$ Prerequisite Requirement

## Linn-Mar High School

 Choral Program

AP Music
Theory MUS500
Grade: 10--12
PR: Instructor Approval

Music Fundamentals KCC
Grade: 10--12
PR: None

## Music <br> $\mathrm{PR}=$ Prerequisite Requirement

## Linn-Mar High School Orchestra Program

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

## Concert Orchestra (Black) MUS230-2 <br> Grade: 9-12 <br> PR: Instructor Approval

Philharmonic Orchestra
MUS290
Grade: 9-12
PR: Instructor Approval
AP Music Theory MUS500
Grade: 10--12
PR: Instructor Approval

Symphony Strings
MUS240
Grade: 9-12
PR: Instructor Placement

## Concert Band

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

MUS110
9
10
2 Semesters
Skinny
$8^{\text {th }}$ grade band OR instructor approval

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

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

Course Description: This course is a concert 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: |  | $9-11$ |$\quad$| Credits: |  |
| :--- | :--- |
| Length: |  |
| Format: |  |
| Premequisite: |  |
|  | Skinny <br> Participation in a school <br> band the prior year OR <br> instructor approval |
|  |  |

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

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

Course Description: This course is a concert 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 <br> band the prior year OR <br> instructor approval |
|  |  |

Fees: $\$ 45.00$ rental if using a school wind instrument or percussion instrument.
Considerations: Some instruments are provided. Most students own their own instrument.
Course Description: This course is a concert 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 <br> Course \#: MUS200C <br> Grade Level: $\quad 10-12$ <br> Credits: 10 <br> Length: <br> Format: <br> Prerequisite: Participation in a school band the prior year OR instructor approval

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

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

Course Description: This course is a concert 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:
Prerequisite:

Skinny
Participation in a school band the prior year OR instructor approval

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

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

Course Description: 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
Considerations: 10-12 grade Tenor and Bass voices must audition to be placed in this choir. $9^{\text {th }}$ grade Tenor and Bass voices are automatically placed in this choir.

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

| Lux |  |
| :--- | :--- |
| Course \#: | MUS120B |
| Grade: | $9-12$ |
| Credits: | 10 |
| Length: | 2 semesters |
| Format: | Skinny |
| Prerequisite: | Instructor approval |

Considerations: 10-12 grades Sopranos and Altos must audition to be placed in this choir. $9^{\text {th }}$ grade Soprano and Alto voices are automatically placed in this choir.

Course Description: 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 $2^{\text {nd }}$ quarter.

## Chamber Singers

Course \#: MUS210A

Grade Level: 10-12
Credits: 10
Length:
Format:
Prerequisite:
2 Semesters
Skinny Fortis, Lux, OR instructor approval

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

Course Description: Emphasis will be on the preparation of choral works for 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
Considerations: All registrants will complete a vocal audition and be placed in the appropriate ensemble by the instructors.

Course Description: 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 |

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

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

| Bella Voce |  |  |
| :--- | :--- | :--- |
| Course \#: |  | MUS210D |
| Grade Level: |  | $10-12$ |
| Credits: |  | 10 |
| Length: |  | 2 Semesters |
| Format: |  | Skinny |
| Prerequisite: |  | Fortis, Lux, OR |
|  |  | instructor approval |

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

Course Description: 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:
Prerequisite: Fortis, Lux, OR instructor approval

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

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

## Concert Orchestra (Red)

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

Fees: $\$ 45.00$ rental instrument fee.
Considerations: Entry-level ensemble no audition required. Cellos and Basses are provided for daily rehearsal only. Students must provide their own instrument for home use.

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

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

## Concert Orchestra (Black)

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

Fees: $\$ 45.00$ rental instrument fee.
Considerations: Entry-level ensemble no audition required. Cellos and Basses are provided for daily rehearsal only. Students must provide their own instrument for home use.

Course Description: 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:
Length:
Format:
Prerequisite: Instructor approval
Fees: $\$ 45.00$ rental instrument fee.
Considerations: All students must audition for the director to be enrolled in this ensemble. Specific audition materials are required for the audition and can be acquired from the director.

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

Marching Band
Course \#: MUS280
Grade Level: 10-12
(9 $9^{\text {th }}$ by audition)
Credits:
2.5

Length:
Format:
Prerequisite:
1 Quarter
Early-Bird (7:15-8:00)
none

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

Advanced Placement Music Theory
Course \#: MUS500

Grade Level: 10-12
Credits:
Length:
Format:
Prerequisite: Music Fundamentals or instructor approval

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

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

## MUSIC FUNDAMENTALS HIGHLY RECOMMENDED (See p. 118)

## Linn-Mar Fitness/Health



Health Careers
HPE450
Grade: 12
PR: None

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


## Graduation Requirements

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


## Fitness/Health

## PR=Prerequisite Requirement

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

## Health I

Course \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite: None
Considerations: This course is required for graduation.

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

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

Considerations: None
Course Description: 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
Grade Level:
9-12
Credits:
5
Length:
Format:
Prerequisite: Approval
Considerations: Specific skills taught and assessed are determined by a student's individualized education plan. Must have administrative approval to enroll.

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

| Fundamentals of Lifetime Fitness |  |
| :--- | :--- |
| Course \#: | HPE110 |
| Grade Level: | $9-10$ |
| Credits: | 5 (Each Year) |
| Length: | 1 Quarter |
| Format: | Block |
| Prerequisite: | None |
| Grading: | Credit/No Credit |

Considerations: This course is required for both freshmen and sophomores. This course is required for graduation.

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

## Lifetime Fitness - Aqua Fit I

Course \#: HPE321
Grade Level: 11-12
Credits: 2.5
Length: 1 Quarter
Format: Skinny
Prerequisite: Fundamentals of Lifetime Fitness or Permission
Grading: Credit/No credit
Considerations: A different Lifetime Fitness course is required for the Junior and Senior years.

Course Description: This section explores the unique buoyancy, resistance, and movement of water to improve overall fitness. The student will design and implement an Individualized Aquatic Fitness Plan. The class emphasis includes enhancing fitness through Activity Labs designed to improve Aerobic Capacity, Core Endurance, Muscular Fitness, and overall Flexibility. The student will demonstrate the ability to use 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.

| $l$ | Lifetime Fitness |
| :--- | :--- |
| - Flex and Fit I |  |
| Course \#: | HPE331 |
| Grade Level: | $11-12$ |
| Credits: | 2.5 |
| Length: | 1 Quarter |
| Format: | Skinny |
| Prerequisite: | Fundamentals of |
|  | Lifetime Fitness or |
|  | Permission |
| Grading: | Credit/No credit |

Considerations: A different Lifetime Fitness course is required for the Junior and Senior years.

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

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

Considerations: A different Lifetime Fitness course is required for the Senior year.

Course Description: This section is designed to provide advanced opportunities for the student to improve their personal fitness and concept knowledge. This section will utilize Group Activity Labs to support the functional fitness improvement. The student will create and utilize a Personal Fitness Portfolio to track and reflect on Activity Lab results. The student will demonstrate the ability to use 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 advanced 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.

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

Considerations: A different Lifetime Fitness course is required for the Junior and Senior years.

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

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

Considerations: A different Lifetime Fitness course is required for the Senior year.

Course Description: This section is designed to allow the advanced student to apply learned Strength Training Principles and Techniques. The student will be engaged in demonstrations/ discussions and evaluations of lift performances during Activity Labs. The goal will be to improve Muscular Fitness and further knowledge and understanding of Strength Training Theory and Practice. The student will demonstrate the ability to use 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 Muscular Fitness while demonstrating advanced knowledge of fitness concepts and principles. The student will complete and reflect on districtapproved fitness assessments for completion of the class. CPR training is included in this course.

## Health Careers

Course \#:
Grade Level:
Credits:
12
Length:
Up to 21 credits
Format:
2 Semesters
Block
None
Considerations: This course is a part of the Career Edge Academy and is taught at Linn Regional Center by Kirkwood staff.

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

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

## PLTW/ Venture Principles of Biomedical Science Strand

| Course \#: | HPE702 |
| :--- | :--- |
| Grade Level: | $10-12$ |
| Credits: | 20 credits (15 Biomedical, |
| Length: | 5 elective) |
| Format: | 1 Semester |
| Prerequisite: |  |
|  | SuperBlock (2 Blocks) |
|  | 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.

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 111 to learn more about the Venture program

## Career and Technical Education Service Areas and Career Clusters

## Iowa's Career and Technical Education Service Areas



Linn-Mar Career and Technical Education Pathways begin on page 134.

## Linn-Mar CTE Career and Technical Education



## Agricultural Education

$\mathrm{PR}=$ Prerequisite Requirement

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

Principles of
Agricultural Science-
Plant
AGR250
Grade: 10-12
PR: None

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

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

Aquaculture Science
AGR225
Grade: 9-12
PR: None

Principles of
Agricultural Science-
Animal
AGR240
Grade: 10-12
PR: None

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

Agriculture Power and
Technology
AGR300
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 \#: | AGR110 | CASE |
| :--- | :--- | :--- |
| Grade Level: | $9-10$ |  |
| 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.

## Principles of Agricultural Science-

## 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 teaching students the form and function of plant systems. Student experiences include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting.

Natural Resources and Ecology

| Course \#: | 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.

|  |  |  | CASE |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
| Animal and Plant Biotechnology |  | CAR280 |  |
| Course \#: | AGR2 |  |  |
| 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:

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.

| $l$ | Food Science and |
| :--- | :--- |
| Safety |  |
| Course \#: | AGR270 |
| Grade Level: | $10-12$ |
| Credit: | 10 |
| Length: | 2 Quarters |
| Format: | Block |
| Prerequisite: | None |

## Considerations:

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

## Course Description:

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

| Environmental | Science Issues |  |  |
| :--- | :--- | :--- | :--- |
| Course \#: | CASR290 |  |  |
| Grade Level: | AGRE-12 |  |  |
| Credit Hours: | 10 |  |  |
| Length: | 2 Quarters |  |  |
| Format: | Block |  |  |
| Prerequisite: | None |  |  |

## Considerations:

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

## Course Description:

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

## Agricultural Power and Technology

| Course \#: | AGR300 |  |
| :--- | :--- | :--- |
| Grade Level: | $10-12$ | CASE |
| Credit Hours: | 10 | CAS |
| 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 |
| Length: | 2 Quarters |
| Format: | Block, Blended |
| 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 \#: |  | CGR550 |
| :--- | :--- | :--- |
| 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 ResourcesWorkplace 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

$\mathrm{PR}=$ Prereauisite Reauirement

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

Accounting
BUS330
Grade: 10-12
PR: None

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

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

Career Immersion
MOC
BUS450
Grade: 12
PR: Application and Interview

## Business Marketing/Entrepreneurship

$\mathrm{PR}=$ Prerequisite Requirement



## Personal Finance

Course \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
Considerations: This course meets financial literacy standards of the lowa Core required for graduation.

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

## Economics

Course \#:
Grade Level:
SOC310
Credits:
Length:
Format:
Prerequisite:
Considerations: Students should be comfortable working with charts and tables.

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

Accounting
Course \#:
BUS330
Grade Level: $\quad$ 10-12
Credits:
Length:
Format:
Prerequisite: None
Considerations: None
Course Description: Students will learn the fundamentals of double-entry accounting for personal and small business use. They will also learn about payroll, income tax and banking activities. Computers and various business forms will be used to help students develop a beginning understanding of the business world.

## Introduction to Business

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

Considerations: None
Course Description: This course will give students an overview of the study of business. It will allow students to see and briefly experience all aspects, including Business Ownership and Entrepreneurship, Management and Organization, Human Resources, Marketing, Finance and Accounting.

Sports and Entertainment Marketing

| Course \#: | BUS345 |
| :--- | :--- |
| 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 Marketing Essentials strand.

Course Description: This course is designed exclusively for Venture Academics.

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:
Length:
Format:
1 Quarter
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.

## Digital Marketing

Course \#:
BUS360
Grade Level: 10-12
Credits:
5
Length:
Format:
Prerequisite:
1 Semester
SuperBlock
None

## Considerations:

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

Course Description: This course is designed exclusively for Venture Academics.

Digital Marketing provides a broad overview of the techniques used by businesses to market to consumers of the $21^{\text {st }}$ 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.

| $l$ | Venture Marketing |  | Essentials Strand |
| :--- | :--- | :---: | :---: |
| Course \#: | BUS701 |  |  |
| Grade Level: | $10-12$ |  |  |
| Credits: | 20 |  |  |
| Length: | Semester |  |  |
| Forma: | SuperBlock (2 Blocks) |  |  |
| Prerequisite: | None |  |  |

Courses: BUS345, BUS355, and ENG120.
Course Description: This course covers the same content as BUS355, and ENG120 in a projectbased, hands-on, and 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 111 to learn more about the Venture program.

Business/Consumer Law
Course \#: BUS410
Grade Level: 11-12
Credits:
5
Length: 1 Quarter
Format:
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: | $11 / 12$ |
| Credits: | 10 |
| Length: | 2 Quarters |
| Format: | Block |
| Prerequisite: | Accounting |

Considerations: See prerequisite. HP $10 b 11$. Financial calculator is required.

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

## MOC Internship

Career Immersion

| Course \#: | BUS440 |
| :--- | :--- |
| Grade Level: | 12 |
| Credits: | 20 |
| Length: | 2 Semesters |
| Format: | Block |
| Prerequisite: | See Considerations |

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

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

## MOC Related Career Immersion

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

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

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

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

## Entrepreneurship

| Course \#: | BUS460 |
| :--- | :--- |
| Grade Level: | $10-12$ |
| Credits: | 5 |
| Length: | 1 Quarter |
| Format: | Block |
| Prerequisite: | None |

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

Course Description: 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.

| $l$ | Venture Advanced Business Strand |
| :--- | :--- |
| Course \#: | BUS702 |
| Grade Level: | $10-12$ |
| Credits: | 20 |
| Length: | Semester |
| Format: | SuperBlock (2 Blocks) |
| Prerequisite: | None |

Considerations: 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: BUS360, BUS460, and ENG120.
Course Description: This course covers the same content as BUS360 and BUS460 in a projectbased, hands-on, and 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 111 to learn more about the Venture program.

## AP Microeconomics

| Course \#: | BUS510 |
| :--- | :--- |
| Grade Level: | $11-12$ |
| Credits: | 10 |
| Length: | 2 Quarters |
| Format: | Block |
| Prerequisite: | Economics is <br>  <br>  <br> $\quad$recommended |

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

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

LM ROAR Store
Course \#:
BUS550
Grade Level:
11-12
Credits: 5
Length:
Format:
Prerequisite:
1 Semester
Skinny
Any of 2 or more Business courses

Considerations: 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.

## Design/Engineering/Materials Design \& Engineering

$\mathrm{PR}=$ Prerequisite Requirement


# Design/Engineering/Materials Construction/Carpentry 

PR=Prerequisite Requirement


Capstone
Building Trades
IND500
Grade: 12
PR: Application and Interview

Career Immersion
MOC
BUS450
Grade: 12
PR: Application and Interview

# Design/Engineering/Materials Manufacturing 

$\mathrm{PR}=$ Prerequisite Requirement

Computer Aided Design
IND110
Grade: 9-12
PR: None


Metals: Materials and Processes
IND310
Grade: 11-12
PR: None

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

Career Immersion MOC
BUS450
Grade: 12
PR: Application and Interview

## Computer Aided Design

Course \#: IND110
Grade Level: 9-12
Credits:
Length:
Format:
5

Prerequisite: None
Considerations: None
Course Description: This course is designed to teach the practical application of 2- and 3dimensional 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: $\quad 5$
Length: 1 Quarter
Format: Block
Prerequisite: none
Considerations: None
Course Description: 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:
Length:
Format:
Prerequisite: Residential Const I
Considerations: None
Course Description: 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
Considerations: Grade of $80 \%$ or higher for second quarter of Woods: Materials and Processes is required.
Course Description: This course is designed to teach skills necessary for basic woodworking applications. The course stresses student safety through a series of demonstrations and safety tests. Students will plan and construct introductory projects to gain skills necessary to complete a final project of their choosing. A lathe project is also required.

## Cabinet Making

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

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

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

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

Metals: Materials and Processes
Course \#: IND310

Grade Level: 11-12
Credits: 10
Length: 2 Quarters
Format: Block
Prerequisite: none
Considerations: Fees the same as Cabinet Making

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

| Building Trades |  |
| :--- | :--- |
| Capstone Course |  |
| Course \#: | IND500 |
| Grade Level: | 12 |
| Credits: | 20 |
| Length: | 2 Semesters |
| Format: | Block |
| Prerequisite: | None |
| Fees: | Purchase of safety <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br> equipment such as <br> glasses or ear <br> protection |

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

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

| Intro to Engineering Design |  |
| :--- | :--- |
| Course \#: | IND600 |
| Grade Level: | $9-12$ |

Considerations: This course articulates credit with Kirkwood Community College.

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


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

Course Description: This course is the study of electronic circuits that are used to process and control digital signals as opposed to analog signals that are varying. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

| Principles of Engineering | IND610 |
| :--- | :--- |
| Course \#: | $10-12$ |
| Grade Level: | 10 |
| Credits: | 2 Quarters |
| Length: | Block |
| Format: | Algebra |
| Prerequisite: |  |

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 articulates credit with Kirkwood Community College.

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

## Computer Integrated Manufacturing (CIM)

Course \#:
IND640
Grade Level: 9-12
Credits:
10
Length: 2 Quarters
Format:
Block
Co-requisite: Algebra
Considerations: This course articulates credit with Kirkwood Community College.

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

Computer Science Essentials (CSE)
Course \#: IND645
Grade Level: 9-12
Credits: 10
Length: 2 Quarters
Format: Block
Prerequisite: None
Considerations: 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.

Computer Science Principles (CSP)

| Course\#: | IND650 |
| :--- | :--- |
| Grade Level: | $9-12$ |
| Credits: | 10 |
| Length: | 2 Quarters |
| Format: | Block |
| Corequisite: | Algebra or concurrent <br> enrollment in Algebra |

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

Course Description: Explore a variety of fields within computer science: Python programming, 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 \#: IND660
Grade Level: 10-12
Credits 10
Length: 2 Quarters
Format: Block
Corequisite: Computer Science Essentials (CSE) or Computer Science Principles (CSP)

Considerations: 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.

Course Description: 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.


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

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

Engineering Design and Development (EDD)

| Course \#: | IND680 |
| :--- | :--- |
| Grade Level: | 12 |
| Credits | 10 |
| Length: | 2 Quarters |
| Format: | Block |
| Prerequisite: | Any two PLTW |
|  | Engineering 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 engineering courses which include: Introduction to Engineering Design, Principles of Engineering, Digital Electronics, Aerospace Engineering, Civil Engineering and Architecture, Computer Integrated Manufacturing, Environmental Sustainability, or Computer Science Principles.

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



# Family/Consumer Sciences Child Development/Education 

$\mathrm{PR}=$ Prerequisite Requirement

## Foundations of Living

FAM100
Grade: 9-12
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

## Family/Consumer Sciences Home

$\mathrm{PR}=$ Prerequisite Requirement



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

## Interior Design

FAM240
Grade: 0-12
PR: None


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

## Culinary Basics

Course \#:
Grade Level: 9-12
Credits: 5
Length: 1 Quarter
Format:
Block
Prerequisite: None
Considerations: None
Course Description: 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: 10-12
Credits:
Length:
Format:
Prerequisite: None
Considerations: None
Course Description: Students will learn to sew or increase sewing skills in this hands-on projectbased 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:
Format:
Prerequisite: None
Considerations: None
Course Description: 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/ <br>  <br>  <br>  <br>  <br> Creative Sewing with <br> 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 \#:
Grade Level:
FAM300
Credits:
Length:
Format:
Prerequisite:
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:
Prerequisite:
Block
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

 DevelopmentCourse \#: FAM425
Grade Level: 10-12
Credits: 5
Length: 1 Quarter Format: Block
Prerequisite: KCC qualifying placement score

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

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

## KCC Exploring Teaching

Course \#: FAM450
Grade Level: 11-12
Credits: 5
Length: 1 Quarter
Format: Block
Prerequisite: Human Growth and Development or KCC Child Growth and Development

Considerations: This is a concurrent course with Kirkwood Community College and is recommended for those considering careers in education. This is the second course necessary to obtain the ParaEducator 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 \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
FAM460
11-12
5
1 Quarter
Block

Human Growth and Development or KCC Child Growth and Development

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

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

## 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-toweek, 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 ${ }^{\circledR}$. 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 similar if not the same as Traditional or Blended Learning courses.

Schoology Online Learning courses for 2023-2024 include Composition I, Composition II, and Personal Finance.

Edmentum ${ }^{\circledR}$ Online Learning courses include Personal Finance, Health I, Government, and a variety of electives in additional content areas. Fully online students may use Edmentum ${ }^{\circledR}$ 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 ${ }^{\circledR}$ 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 2023-2024. 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
Art in World Cultures

## Career \& Technical Education

3D Modeling la: Introduction
Animation la: Introduction
Animation lb: Animating Your Creativity!
Artificial Intelligence
Biotechnology Ia: Introduction
Biotechnology lb: Unlocking Nature's Secrets
Careers in Criminal Justice la: Introduction Careers in Criminal Justice lb: Finding Your Specialty
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
Renewable 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 Uncovered
Archaeology: Detectives of the Past
Music Appreciation: The Enjoyment of Listening
Philosophy: The Big Picture
Women's Studies: A Personal Journey Through Film
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

Health
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 lb
American Sign Language 2a
American Sign Language 2b
American Sign Language 3a: Community and Culture
American Sign Language 3b: Conversations and Culture
Chinese $1 \mathrm{~A} / \mathrm{B}$ (EdOptions Academy Only)
Chinese $2 \mathrm{~A} / \mathrm{B}$ (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.

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

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

Venture Academics 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 $9^{\text {th }}$ grade with a required quarter-long career awareness and college planning seminar designed especially for TAG students. $9^{\text {th }}$ 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.
$10^{\text {th }}, 11^{\text {th }}$, and $12^{\text {th }}$ 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.


## PROJECT LEAD THE WAY

 PLTWThese courses are also found in the Science and DEIM Department courses offered.

| Intro to Engineering Design |  |
| :--- | :--- |
| Course \#: | IND600 |
| Grade Level: | $9-12$ |

Considerations: This course articulates credit with Kirkwood Community College.

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

Principles of Engineering
Course \#: IND610


Grade Level: 10-12
Credits:
Length:
Format:
10

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 college engineering coursework is like.

| $l$ | Digital Electronics (DE) |
| :--- | :--- |
| Course \#: | IND620 |
| Grade Level: | $10-12$ |
| Credits: | 10 |
| Length: | 2 Quarters |
| Format: | Block |
| Prerequisite: | Algebra |

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

Course Description: This course studies electronic circuits that are used to process and control digital signals as opposed to analog signals that are varying. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

Civil Engineering and Architectural Design (CEA) Course \#: IND630 Grade Level:
Credits:
Length:
Format:
Prerequisite:
10-12
10
2 Quarters
Block
Algebra
Considerations: This course articulates credit with Kirkwood Community College.

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

Computer Integrated Manufacturing (CIM)

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

Considerations: This course articulates credit with Kirkwood Community College.

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

Aerospace Engineering (AE)
Course \#: IND670
Grade Level: 10-12
Credits
10
Length: 2 Quarters
Format:
Prerequisite:

## Block

Introduction to Engineering Design or Principles of Engineering

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

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


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

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, their creative and problem-solving abilities, and their understanding of the design process.

Environmental Sustainability Course \#: SCI620 Grade Level: 10-12
Credits:
Length:
Format:
Prerequisite:
10
2 Quarters
Block
Algebra AND General Biology

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

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

## PLTW Principles of Biomedical Science

Course \#: HPE600
Grade Level:
Credits:
Length:
Format:
10-12

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 111 for more information about the Venture Academics Program.

# Venture <br> Academics 

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.

Learning is offered in 11 project-based strands composed of courses offered at LMHS.

| ADVANCED BUSINESS |  |
| :--- | :--- |
| BUS360 | DIGITAL MARKETING |
| BUS460 | ENTREPRENEURSHIP |
| BUS702 | VENTURE ADVANCED BUSINESS |
| ENG120 | RHETORIC |
|  |  |
| BEHAVIORAL SCIENCE |  |
| SOC330 | SOCIOLOGY |
| SOC340 | INTRODUCTORY PSYCHOLOGY |
| SOC 702 | VENTURE BEHAVIORAL SCIENCE |
| ENG120 | RHETORIC |
| BIOMEDICAL SCIENCE |  |
| HPE600 | PLTW PRINCIPLES OF BIOMEDICAL SCIENCE |
| HPE702 | VENTURE BIOMEDICAL SCIENCE |
| CIVICS |  |
| SOC390 | STATE AND LOCAL GOVERNMENT |
| SOC400 | GOVERNMENT |
| SOC701 | VENTURE GOVERNMENT AND LAW |
| ENG120 | RHETORIC |
| DIGITAL DESIGN AND COMMUNICATION |  |
| ART400B | DIGITAL PHOTOGRAPHY |
| ART410 | GRAPHICS ONE |
| ART420 | GRAPHICS TWO |
| ART701 | VENTURE DD \& C |


| EARTH SCIENCE |  |
| :--- | :--- |
| SCI125 | EARTH SCIENCE |
| SCI701 | VENTURE EARTH SCIENCE |
| ENG120 | RHETORIC |
|  |  |
| ENGLISH |  |
| ENG315 | ENGLISH III |
| ENG702 | VENTURE ENGLISH |
| ENG120 | RHETORIC |
| ENVIRONMENTAL SCIENCE |  |

- EACH STRAND EARNS 20 CREDITS FOR INDIVIDUAL EMBEDDED COURSES
- ALL STRANDS OTHER THAN ENVIRONMENTAL SCIENCE, DIGITAL DESIGN AND COMMUNICATIONS, AND BIOMEDICAL SCIENCE EARNS ENG120/390 RHETORIC OR COMMUNICATIONS CREDIT
- FIRST YEAR VENTURE STUDENTS EARN RHETORIC CREDIT
- SECOND YEAR VENTURE STUDENTS EARN COMMUNICATIONS CREDI

Each strand will include complementary coursework totaling 15 content-area credits and 5 projectwork credits. Community partners will often support projects.

Venture Academics is open to all students; however, Venture is a different type of learning environment than traditional classes. To be successful in Venture students must work well with others, have solid attendance, and take ownership for their learning by seeking out information and showing self-direction. Students work to meet content objectives through projects like the examples below. (Listing provides only a sample of possibilities; projects will vary by project team.)

Advanced Business -

- Design, build, license, and market an innovative new product that solves a problem.
- Research successful entrepreneurs. Apply identified skills and processes entrepreneurs use to create success to a personal business venture.

Behavioral Science -

- Work with local government and non-profit organizations to explore the social constructs/ institutions that dominate American culture.
- Journal and reflect on terms/ideas of personality development, individual roles within society, and social norms, and publish findings.


## Biomedical Science -

- Explore concepts of biology and medicine by taking on roles of different medical professionals to solve real-world problems.
- Simulating the diagnosis and proposal of treatment to patients in a family medical practice.
- Simulating the tracking and containment a medical outbreak at a local hospital, stabilizing a patient during an emergency
Civics -
- Analyze current methods of political polling, hypothesize improvements, recreate, and pilot a new system to improve polling accuracy.
- Prepare for and participate in a mock Constitutional Convention to debate and clarify our Bill of Rights.

Digital Design and Communication -

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


## Earth Science -

- Create or improve a process for energy capture and conversion for carbon-free power.
- Earth Science - Research the lowa Department of Agriculture's Mines and Minerals Bureau to learn about abandoned mined (coal) land reclamation in the State. Educate the public about restoration of abandoned mining sites.


## English -

- Influence a cause about which one is passionate through serial publication of persuasive writing.
- Writing - Work with a local business or government agency to provide research on a topic of mutual interest. Write formally and informally to communicate findings to business and community.


## Environmental Science -

- Monitor the level of contaminants in area waterways. Develop and implement methods to decrease pollutants through the natural filtering of run-off.
- Design, build, and test a reinvention or innovation for a material that is typically discarded at the end of its use.


## Life Science -

- Prepare and perform a study on a local ecosystem. Collect and present data on changes to the ecosystem over time.
- Research examples of natural selection and adaptation. Prepare a presentation describing the influence of genetic variation and survival on the population of species.


## Marketing Essentials -

- Work with a local business to create and execute a marketing plan to increase sales of existing products.
- Collaborate with local businesses/sports teams/entertainment venues. Review marketing plans and assist with creating marketing strategies.

Spanish IV Culture and Community -

- Establish an in-house, school translation services program for Spanish-speaking students and families.
- Work with local businesses to create and maintain marketing and outreach communications with Spanish-speaking residents.

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

## LMHS Talented and Gifted

## Freshman Seminar TAG 1

Course \#:
TAG410
Grade Level: 9
Credits:
2.5

Length:
Format:
Prerequisite:
1 Quarter
Skinny
Instructor approval
Considerations: This course is for students identified by established district guidelines.

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

## Independent Study TAG 5

| Course \#: | TAG510 |
| :--- | :--- |
| Grade Level: | $10-12$ |
| Credits: | 5 |
| Length: | 1 Semester |
| Prerequisite: | Instructor approval |

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

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

AP Online Independent Study
Course \#:
Grade Level:
TAG620
Credits:
10-12
Length: 1-2 Semesters
Prerequisite: Instructor approval
Considerations: This course is for students identified by established district guidelines.

Course Description: 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 Options 

## Linn-Mar

Capstone Courses

## Career Immersion

## Linn-Mar Capstone Courses

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

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


## Career Immersion

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

## Early College Options



## Advanced Placement

Linn-Mar High School offers Advanced Placement (AP) courses in Art History, Calculus (AB and BC), Statistics, Biology, Chemistry, Environmental Science, Physics (1 \& 2), Computer Science A, English Literature and Composition, French, Microeconomics, Music Theory, Comparative Government, World History, Psychology, U.S. Government, and U.S. History. A minimal number of AP courses are available through the lowa 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 $11^{\text {th }}$ and $12^{\text {th }}$ 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 with Robotics and Welding
- Architecture, Construction, and Engineering (ACE)
- Automotive Technology
- Criminal Justice and Human Services
- Dental Assisting
- Emergency Medical Technician (EMT) and Fire Science
- Patient Care Exploration
- Pre-Med, Nursing, and Professional Health Careers
- Pre-Nursing with Nurse Aide Certification
- Technology


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


## Concurrent Enrollment Courses*

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

Behavior Management
Childhood Growth and Development
Civil Engineering and Architectural Design
Composition I
Composition II
Computer Integrated Manufacturing
Digital Electronics

Environmental Sustainability
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
Calculus III
Criminal Investigations
Cultural Anthropology
Encounters in Humanities
Exploring Health Careers
Fundamentals of Oral Communication
Holocaust/Genocide: Mem \& Lit
How College Works
Human Anatomy I
Human Anatomy II
Human Relations in Management
Intro to Criminal Justice
Introduction to Business
Introduction to Ethics
Intro to Human Services
Introduction to Sociology

Marriage and Family
Mass Media
Medical Terminology
Music Fundamentals
Nurse Aide
Nutrition
Personal Finance
Personal Wellness
Popular Culture
Principles of Macroeconomics
Professionals in Health
Project Management Basics
Social Problems
Survey of World Religions
Topics in Education
US History Since 1877
US History to 1877
Working in America
*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:
Credit Completion 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.
Credit Recovery 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 \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:

## ENG110

9

$$
10
$$

2 Quarters
Block
None

Considerations: English 9 or English I required for graduation.

Course Description: 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 \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
Considerations: English 10 or English II is required for graduation

Course Description: This course develops communication skills in reading, speaking, listening, thinking, and writing. It includes 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: None
Course Description: Students will read, discuss, and analyze a variety of texts written by American authors, including short stories, plays, and The Great Gatsby. Students will research, collaborate, and present on topics related to the literature.

## Journalism

Course \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite: None
Considerations: None
Course Description: This course is an introductory, overview class which teaches basic journalism skills while examining the role of newspapers in our society. Areas explored include newspaper interviewing, writing, and editing. Students are also introduced to the concepts of Press Law. This course DOES NOT meet the composition requirement for admission to UNI.

Multicultural Literature
Course \#: ENG255
Grade Level: 11-12
Credits:
Length:
Format:
Prerequisite: None

## Considerations: None

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

## Writing

Course \#:
Grade Level:
ENG270
Credits:
11-12
Length:
1 Quarter
Format:
Prerequisite: None
Consideration: Students should take this class if they need to improve their writing skills, and do not yet feel comfortable taking a college-level writing class.

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

## Reading I

Course \#:
Grade Level: 10-12
Credits:
Length:
Format:
Prerequisite: None
Considerations: None

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

## Reading II

Course \#: ENG300
Grade Level: 10-12
Credits:
Length:
Format:
Prerequisite: Reading I
Considerations: None
Course Description: Students will read The Lost World. They will work on reading fluency and comprehension. Students will research, collaborate, and present on relevant topics. Students will also improve their writing skills. They will create a project that illustrates their learning over the course of the quarter.

Speech
Course \#:
Grade Level:
ENG310 11-12
Credits:
Length:
Format:
Prerequisite:
5
1 Quarter
Block
None
Considerations: Speech or Acting is required for graduation.

Course Description: Speech is designed to make students more effective communicators by emphasizing a variety of real-life speaking situations and building self-confidence 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:
Prerequisite: None
Considerations: Meets on Fridays only
Course Description: 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:
Length:
Format:
Prerequisite: None
Considerations: None
Course Description: Students will read a variety of selected contemporary titles. Students will complete multiple projects to promote lifelong literacy and will discover how technology and the internet can enhance reading selections. Some selections in this course have a more mature theme.

## Contemporary Literature II

Course \#: ENG250
Grade Level: 10-12
Credits:
Length:
Format:
Prerequisite: None
Considerations: This course is designed for students who are motivated to read and complete projects independently.

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

Independent Novel Writing
Course \#: ENG400
Grade Level: 9-12
Credits:
Length:
Format:
5
1 Quarter
Block
Prerequisite: Writing and Creative Writing
Considerations: This course is designed for the student who is considering writing as a profession.

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

## Creative Writing

Course \#: ENG410
Grade Level: $\quad 10-12$
Credits:
5
Length: 1 Quarter
Format: Block
Prerequisite: None
Considerations: None
Course Description: 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: $\quad 5$ credits per quarter
Length: 1 Semester
Format:
Block
Prerequisite: None
Considerations: A scientific calculator or its equivalent required. Graphing calculators are not allowed in this course.

Course Description: This course is an introductory class for Algebra. 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 <br> Course \#: <br> Grade Level: <br> Credits: <br> Length: <br> Format: <br> Prerequisite: <br> MAT150 <br> 10-11 <br> 5 credits per quarter <br> 1 Semester <br> Block <br> Pre-Algebra and instructor approval

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

Course Description: 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:
Credits:
Length:
Format:
Prerequisite:

10-12
5 credits per quarter
1 Semester
Block
Algebra Fundamentals I or instructor approval

Considerations: Students are placed in this course per approval of the math department based on Algebra, and lowa 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 \#:
Grade Level:
MAT220


Credits:
Length:
Format:
Prerequisite:
9-12
5 Credits per quarter
2 Semesters
Block
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 \#: SCl210

Grade Level: 9-12
Credits: $\quad 10$
Length: 2 Quarters
Format: Block
Prerequisite: None
Considerations: 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: | 5 |
| Length: | 1 Quarters |
| Format: | Block |
| Prerequisite: | General Biology |

Considerations: 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 |

Considerations: See prerequisite. Strong comprehensive vocabulary, reading and study skills. This course meets the L-M science elective requirement.

Course Description: 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: | 1Quarter |
| Format: | Block |
| Prerequisite: | None |

Considerations: Strong comprehensive vocabulary, reading and study skills. This course meets the physical science requirement for graduation.

Course Description: This course examines what science is, how it works, and what it can and cannot do. A number of activities and open inquiries look at fundamental properties and laws of the physical world. These properties include motion, forces, momentum, and energy.

## Advanced Biology

Course \#:
SCl230
Grade Level: 10-12
Credits:
Length:
Format:
Prerequisite: General Biology

Considerations: See prerequisite. See prerequisites. Strong comprehensive vocabulary, reading and study skills. This course meets the L-M science elective requirement

Course Description: 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 \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
AGR230
10-12
5
1 Quarter
Block
Biology I
Considerations: See prerequisite. Strong comprehensive vocabulary, reading and study skills. This course meets L-M science elective credit requirement.

Course Description: Students will have experiences with a number of plant science concepts with many "hands-on" activities, projects, and problems. Student experiences will involve the study of plant anatomy and physiology, classification, and the planning, planting, and caring for a school garden.

## Personal Finance

Course \#:
Grade Level:
Credits:
Length:
Format:
Prerequisite:
BUS110 or BUS110E 9-12 5 1 Quarter Block none

Considerations: This course meets all financial literary standards of the Iowa Core.

Course Description: This course exposes students to areas of personal finance that they will likely encounter. The curriculum covers, among other topics: consumer awareness, money management, opening bank accounts, managing a checkbook, managing credit, applying for a job and basic information about saving and investing. Information will be presented through projects, activities, guest speakers and multimedia presentations.

| Math for the Building Trades |  |
| :--- | :--- |
| Course \#: | MAT425 |
| Grade Level: | $9-12$ |
| Credits: | 5 Credits per quarter |
| Length: | 1 Semester |
| Format: | Block |
| Prerequisite: | None |

Considerations: None
Course Description: This course is directed toward students who are considering employment in the building trades upon graduation. Students will integrate arithmetic, algebra, and geometry to perform calculations required in all of the major building trades, including construction, carpentry, plumbing, electrical, HVAC, and roofing.

| Teen Insights |  |
| :--- | :--- |
| Course \#: | HPE350 |
| Grade Level: | $9-12$ |
| Credits: | 5 |
| Length: | 1 Quarter |
| Format: | Block |
| Prerequisite: | None |

Considerations: None
Course Description: The class is a combination of notes, chapters from 7 Habits of Highly Effective Teens, movies, projects, and community speakers including Planned Parenthood and ASAC. Students will explore a variety of topics and issues relevant to teens. Students will research and present on multiple topics throughout the course.

Teacher's Assistant
Course \#: ELT100
Grade Level: 9-12
Credits:
Length:
Format:
Prerequisite: Student must have passed the course for which they are the Teacher's Assistant.

Considerations: Instructor must approve
Course Description: 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
Course Description: 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:
Length:
Format:
Prerequisite: None
Considerations: None
Course Description: 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:
Length:
Format:
Prerequisite: None
Considerations: Students should be comfortable working with graphs.

Course Description: 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 \#:
Grade Level:
SOC311
Credits:
9-12
Length:
Format:
Prerequisite:
5
1 Quarter
Block
None
Considerations: Students should be comfortable working with graphs.

Course Description: This course will continue to focus on economic concepts: GDP, productivity, the labor force, competition, the government's role in the economy, the money supply, international trade, and globalization.

## PE

Course \#: HPE300
Grade Level: 9-12
Credits: $\quad 2.5$
Length: 1 Quarter
Format: Block
Prerequisite: None
Considerations: Meets on Fridays only
Course Description: Students will improve their strength, agility, and speed while participating in activities that will develop lifelong healthy habits.

## Independent Foods

Course \#: HPE115

Grade Level: 9-12
Credits:
2.5

Length: 1 Quarter
Format:
Block
Prerequisite: None
Considerations: Meets on Fridays only
Course Description: Students will explore what goes into budgeting and meal planning. Student will prepare a variety of foods

## Career and Technical Education Service Areas and Career Clusters

Agricultural, Food, and Natural Resources
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Arts. ..... p. 132
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## Career Pathway: Agriculture

 LINN-MAR Community School DistrictA 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.

| Exposure Pathwavs |  |  |
| :---: | :---: | :---: |
| High School Courses | JobShadows\& Internships |  |
| _Introduction to Ag, Food \& Nat. Resources Animal \& Plant Biotechnology | Ag Mechanic | Landscaper |
| Aquaculure Science Agricultural Power and Technolog | Agricultural Power and Technology Agriculture Sales | Microbiologist |
| Principles of Ag. Science-Animal Ag. Business Foundations | Agronomist | Naturalist |
| Principles of Ag. Science-Plant Ag. Research \& Development | Botanist | Veterinarian Tech |
| Natural Resources \& Ecology AP Environmental Science | Conservationist | Wastewater Mngt. |
| Environmental Science Issues Environmental Sustainability | Floral Designer | Park Ranger |
| Food Science \& Safety | Geologist | Pet Groomer |
|  | Golf Course \& Turfgrass Management Veterinarian |  |
| Venture Academics |  |  |
| -Venture Environmental Science (AP Environmental Science, Venture Environmental Science) |  |  |
| Venture Earth Science (Earth Science, Rhetoric, Venture Earth Science) | High School Clubs \& Organizations |  |
| Venture Biology (General Biology, VentureBiology) |  |  |
|  | FFA |  |
| Pursuit Pathwavs |  |  |
| Certificates/Diplomas | Careers \& Median Salary Information |  |
| Ag Production Water Environmental Technology | Animal Care Worker $\$ 54,000$ | Recycling Coordinator $\$ 56,000$ |
| Pet Grooming Water Treatment Specialist |  |  |
| Golf Course \& Athletic Turferass Mgmt Wastewater Specialist | Food Science Technician $\$ 46,000$ | Geothermal Technician \$38,000 |
| Veterinary Asst Ag Geospatial Technology |  |  |
| Animal control Asst Water Environmental Technology | Agricultural Inspector \$45,000 | Heavy Equipment Mechanic: $\$ 51,000$ |
| Landscape Construction \& Dsgn |  |  |


| Associate Degrees |  |  | Careers \& Median Salary Information |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Ag Geospatial Technology | Veterinary Technology |  |  |  |
| Ag Business | Humane Officer |  |  |  |
| Ag Production Mgmt | Landscape Construction \& Desgn |  |  <br> Groundskeeping |  |
| Diesel AgTechnology | Parks \& Natural Resources |  |  |  |
| Golf Course \& Athletic Turfgrass Mgmt Water Environmental Technology |  | $\$ 40,100$ |  |  |


| Bachelor Degrees |
| :--- |
| Environmental Studies |

Careers \& Median Salary Information

| Food Scientist | Greenhouse Manager |
| :--- | :--- |
| $\$ 62,500$ | $\$ 42,000$ |
| Aquacultural Manager | Environmental Scientist |
| $\$ 42,000$ | $\$ 68,000$ |

Food Scientist

Aquacultural Manager $\$ 42,000$

Greenhouse Manager \$42,000
$\$ 68,000$

LINW-MAR
Community
Career Pathway: Architecture
School District


A career in architecture and construction requires cer tain skills and education depending on job requirements. Skills include designing, planning, managing, building, and maintaining the built environment.

| Exposure Pathways |  |
| :---: | :---: |
| High SchoolCourses | JobShadows\&Internships |
| Mechanical Drawing Metals | Civil Engineer Project Engineer |
| Residential Construction $1 \quad$ Building Trades | Construction Project Management |
| Residential Construction 2 PLTW Civil Engineering \& Architect | Pre-Fabrication CAD Design |
| Woods Design | Architecture ${ }_{\text {Q }}$ Learnmore \& apply |
| Cabinetmaking Interior Design |  |
| High School Clubs \& Organizations |  |
| Robotics |  |
| Experience Pathways |  |
| College CTECourses in High School | Kirkwood Career Acalemies |
| Civil Engineering and Architectural Design | Architecture, Construction \& Engineering (ACE) Academy |

## Pursuit Pathwavs

| Certificates/Diplomas |  | Careers \& Median Salary Information |  |
| :--- | :--- | :--- | :--- |
| CAD/Mechanical Engineering Tech | Construction Estimator |  |  |
| Carpentry | Construction Supervision Certificate | $\$ 60,000$ | Plar Energy Installation |
| HVAC Installer |  | $\$ 55,700$ | $\$ 55,700$ |
| Plumbing Pre-Apprenticeship |  | Crane Operator |  |
| Associate Degrees |  | $\$ 53,600$ |  |



## Career Pathway: Arts, Audio/Visual Technology, and Communications

LINN-MAR
Community School District


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.


## Pursuit Pathwavs

| Associate Degrees | Careers \& Median Salary Information |  |
| :---: | :---: | :---: |
| Graphic Communication Technology Web Design | Desktop Publisher | Camera Operator |
| Web Development | \$40,000 | \$28,800 |
| Bachelor Degrees | Careers \& Me | alary Information |
| Broadcasting Theater | Proofreader | Talent Director |
| English | \$24,500 | \$42,500 |
|  | Stage Director <br> $\$ 42,500$ | Editor $\$ 41,200$ |

LININAR
Community School District

## 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 eval uating business functions essential to productive business operations.


| Pursuit Pathwavs |  |  |  |
| :---: | :---: | :---: | :---: |
| Certificates/Diplomas |  | Careers \& Median Salary Information |  |
| Office Assistant | Entrepreneurship | Admin. Assistant | Tax Preparer |
| Medical Coding | Human Resources | \$35,800 | \$38,300 |
| Medical Transcription | Project Management | Data Entry | Bookkeeping |
| Technical Accounting | Medical Transcription | \$32,500 | \$37,800 |
| Global Perspectives in Business |  | $\begin{aligned} & \text { Payroll Clerk } \\ & \$ 42,100 \end{aligned}$ |  |
| Associate Degrees |  | Careers \& Med | alary Information |
| Business Admin.: Accounting | Administrative Management | Executive Secretary $\$ 50,000$ | Legal Secretary $\$ 35,900$ |
| Business Admin.: Financial Services | Health Information Technology |  |  |
| Business Admin.: Management | Business Admin. w/ Transfer Option |  |  |


| Bachelor Degrees | Business Management |
| :--- | :--- |
| Business | Human Resources |
| Business Administration |  |

Careers \& Median Salary Information
Marketing Manager
\$91,600
Technical Writer
\$57,300
Search Marketing Strategist Human Resources Manager
\$71,300

LINN-MAR
Community School District

## 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 supportservices.

| Exposure Pathwavs |  |  | ) |
| :---: | :---: | :---: | :---: |
| High School Courses |  | Job Shadows \& Internships |  |
| _Human Growth and Development Introductory Psychology | KCC Child Growth and Development Exploring Teaching | Counselor | Librarian |
|  |  | Child Development Specialist | Teacher \& Classroom Assistant |
| AP Psychology |  | High School Athletic Director | Youth Ministry |
|  |  | Hockey Assistant Coaching | Tutorial Admin. Assistant |
| High School Clubs \& Organizations |  | (? Learn more \& apply - |  |
| LM Buddies | TRY (Teens Reaching Youth) | Experience Pathwavs |  |
| Ok Without Drugs and Alcohol | Student Ambassadors | College CTE Courses in High School |  |
|  |  | KCC Child Growth and Develo | ment Intro to Human Services |
| Venture Academics |  | Exploring Teaching | Behavior Management |
| Venture Behavioral Science (Intro to | Psychology, Sociology, Rhetoric, Ventur |  |  |



| Bachelor Degrees |  |
| :--- | :--- |
| Elementary Education | Organizational Leadership |
| Secondary Education | Athletic Training |

Careers \& Median Salary Information
Kindergarten Teacher Special Education Teacher
$\$ 63,100$ \$57,300

Physical Education Teacher Middle School Teacher \$59,400
$\$ 55,400$

## Career Pathway: Finance

LINN-MAR
Community
School District


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.

| Exposure Pathways |  |
| :---: | :---: |
| High School Courses | Job Shadows \& Internships |
| Personal Finance Marketing | Accounting Finance \& Sales |
| Accounting Business/Consumer Law | Finance ${ }_{\text {a }}$ Learn more \& apply |
| Advanced Accounting Entrepreneurship | evear more dapply |
| Economics Agriculture Business Foundations | High School Clubs \& Organizations |
| AP Microeconomics Introduction to Business |  |
| The ROAR store | FBLA (Future Business Leaders of America) |
| Venture Academics | Experience Pathways |
| Venture Business Foundations <br> (Intro to Business, Marketing, Communications, Venture) | College CTE Courses in High School |
|  | Mathematics and Society |
| Venture Advanced Business | Personal Finance |
| (Business/Consumer Law, Entrepreneurship, Rhetoric, Venture) | Introduction to Business |

## Pursuit Pathways

| Certificates/Diplomas | Careers \& Median Salary Information |
| :---: | :---: |
| Technical Accounting | Statement Clerk Loan Counselor <br> $\$ 40,200$ $\$ 33,000$ |
|  | Bill \&Account Collector Bank Teller <br> $\$ 36,000$ $\$ 28,200$ |
| Associate Degrees | Careers \& Median Salary Information <br> Insurance Appraiser $\$ 34,200$ |
| Business Administration: Accounting |  |
| Business Administration: Financial Services |  |
| Bachelor Degrees | Careers \& Median Salary Information |
| Accounting Financial Counseling and Planning | Financial Analyst Budget Analyst <br> $\$ 73,800$ $\$ 70,300$ |
| Finance | Financial Examiner Actuary <br> $\$ 73,000$ <br> $\$ 83,800$  |

LINN-MAR
Community School District
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, heal th informatics, support services, and biotechnology research and development.

| Exposure Pathways |  |  |  |
| :---: | :---: | :---: | :---: |
| High School Courses |  | Job Shadows \& Internships |  |
| Anatomy \& Physiology | Chemistry I Health II | Chiropractic \& Wellness | Oncology |
| General Biology | AP Biology | Nursing | Optician |
| Physics | AP Chemistry | Dental | Physical Therapy |
| High School Clubs \& Organizations |  | Dietary | Personal Trainer |
|  |  | Dermatology | Radiology |
| HOSA | Science Club | Occupational Therapy | Physician Assistant |
| Red Cross Club |  |  |  |
| Venture Academic |  |  | ? Learn m |
| Venture Biomedical Science (PLTW Biomedical Science, Venture Biomedical Science) |  |  |  |
| Experience Pathways |  |  |  |
| College CTE Courses in High School |  | Kirkwood Career Academies |  |
| Human Anatomy I | Medical Terminology | Emergency Medical Tech.(EMT) Pre-Prof. Health Careers Academy |  |
| Human Anatomy II | Exploring Health Careers | Patient Care Academy |  |
| Nutrition Pharmacy Technician Academy |  |  |  |
| Pursuit Pathways |  |  |  |
| Certificates/Diplomas |  | Careers \& Median Salary Information |  |
| Dental Assisting | Pharmacy Technician | Licensed Practical \& Licen Vocational Nurse $\$ 42,100$ <br> Ophthalmic Medical Tech $\$ 41,500$ | Dental Lab Tech$\$ 41,200$ |
| Medical Coding | Surgical Technology |  |  |
| Medical Assisting | Medical Transcription |  | Dental Assistant $\$ 40,300$ |
| Medical Transcription | Nurse Aide |  |  |
| Practical Nursing (LPN) | EMT |  |  |


| Associate Degrees |  | Careers \& Median Salary Inf. |  |
| :---: | :---: | :---: | :---: |
| Dental Assisting ExerciseScience \& Wellness | Occupational Therapy | Dental Hygienist | Registered Nurse |
| Dental Hygiene Health Information Tech. | Paramedic | \$69,100 | \$69,100 |
| Dental Technology Medical Assisting | Physical Therapy Assistant | Diagnostic Medical | Histotechnologist |
| Diagnostic Assistant (Rad. Tech.) Medical Laboratory Tech. | Respiratory Therapist | $\begin{aligned} & \text { Sonographer } \\ & \$ 62,800 \end{aligned}$ | \$48,400 |
| Electroneurodiagnostic Tech. Associate Degree Nursing, RN | Surgical Technology |  |  |


| 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 Recreational Therapist \$65,200

## Career Pathway: Government

A career in government and public administration requires cer tain skills and education depending on job requirements. Skills include planning and performing government functions at the local, state, and federal levels, including gover nance, national security, for eign service, planning, revenue and taxation, and regulations.

| Exposure Pathwavs |  |
| :--- | :--- |
| High School Courses |  |
| Law and Constitution | AP French |
| Government | Spanish 5 |
| AP Government | Intermediate Spanish I |
| AP Comparative Government | Intermediate Spanish II |
| Business/Consumer Law |  |
| High School Clubs \& Organizations |  |
| Young Democrats | Model UN |
| Young Republicans |  |
| Venture Academics |  |

Job Shadows \& Internships

| City Clerk | Presidential Campaign |
| :--- | :--- |
| Congressional Campaign | Civil Rights |
|  | Experience Pathways |
| College CTE Courses in High School |  |
| IntroductiontoCriminalJustice |  |
| Social Problems |  |
| Cultural Anthropology \& apply |  |

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

## Pursuit Pathwavs

| Certificates/Diplomas | Careers \& Median Salary Information |  |
| :---: | :---: | :---: |
| OfficeAssistant | Administrative Service | Postmaster |
|  | Manager $\$ 83,900$ | \$49,900 |
|  | Postal Service Mail Carrier \$50,000 | Meter Reader $\$ 36,000$ |


| Associate Degrees |
| :--- |
| Business Administration |
| Business Administration: Management Water Environmental Technology |
| Bachelor Degrees |
| Urban Planning |

Careers \& Median Salary Information
Assessor
$\$ 73,200$

LININAR
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.

| Exposure Pathwavs |  |  |
| :---: | :---: | :---: |
| High SchoolCourses | JobShadows\& Internships |  |
| Culinary Basics ProStart Two | Cafe Line Cook | Special Events |
| Foundations of Living Food Science and Safety | Chef Assistant | Travel Agent |
| ProStart One | Cosmetology |  |
| Experience Pathwavs |  |  |
| College CTE Courses in High School |  |  |
| ProStart One ProStart Two |  |  |
| Pursuit Pathwavs |  |  |
| Certificates/Diplomas | Careers \& Median Salary Information |  |
| Baking \& Pastry Arts Hospitality Management | Gaming Manager $\$ 57,600$ | $\begin{aligned} & \text { Tour Guide } \\ & \$ 28,800 \end{aligned}$ |
|  | Animal Trainer $\$ 31,500$ | Hotel, Motel, \& Resort Desk Clerk $\$ 21,400$ |
| Associate Degrees | Careers \& Med | alary Information |
| Culinary Arts Hospitality Management | Travel Agent $\$ 4,700$ | Chef \& Head Cook <br> $\$ 37,000$ |
| Bachelor Degrees | Careers \& Med | alary Information |
| Hospitality Management Event Management | Lodging Manager <br> $\$ 36,000$ | Interpreter \& Translator $\$ 35,000$ |
| Business Administration | Residential Advisor $\$ 23,800$ | Meeting, Convention \& Event Planner $\$ 42,000$ |

LININAR
Community
School District
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 as counseling and mental health services, family and community services, personal care, and consumer services.


| Pursuit Pathwavs |  |  |  |
| :---: | :---: | :---: | :---: |
| Certificates/Diplomas Careers \& Median Salary Information |  |  |  |
| Early Childhood Paraeducator | Early Childhood Education | Preschool Teacher Nanny <br> $\$ 26,000$ <br> $\$ 19,300$  |  |
|  |  | $\begin{array}{ll} \text { Childcare Worker } & \text { Fitne } \\ \$ 19,300 & \$ 37, \end{array}$ | Fitness Trainer $\$ 37,700$ |
| Associate Degrees Careers \& Median Salary Informatio |  |  |  |
| Early Childhood Education | Human Services | Funeral Service Manager $\$ 54,000$ |  |
| Bachelor Degrees $\quad$ Careers \& Median Salary Information |  |  |  |
| Social Work | Psychology | Social \& Community Service Manager | Elementary Teacher $\$ 52,000$ |
| Elementary Education |  | $\$ 54,300$ <br> Religious Activities \& Education $\$ 42,000$ | Social \& Community Service Officer \$54,300 |

LINN-MAR
Community School District
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.



LINWMAR
Community School District

## Career Pathway: Law

A career in law, public safety, corrections, and security requires certain skills and education depending on job requirements. Skills include planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services.

| Exposure Pathwavs |  |  |
| :---: | :---: | :---: |
| High School Courses | Job Shadows \& Internships |  |
| Government AP Comparative Government | Legal Administrative Assistant Receptionist \& Security |  |
| Law \& the Constitution Sociology |  |  |
| AP American Government Media Information Literacy | Legal Support $\quad$ Safety \& Security |  |
| High School Clubs \& Organizations |  |  |
| Debate Club Republicans of Linn-Mar |  |  |
| Democrats of Linn-Mar Model United Nations |  |  |
| Experience Pathwavs |  |  |
| College CTE Coursesin High School | Kirkwood Career Academies |  |
| IntroductiontoCriminalJustice IntroductiontoSociology | Emergency Medical Technician |  |
| Social Problems |  |  |
| Venture Academics |  |  |
| Venture Civics (Government, State and Local Government, Venture) |  |  |
| Pursuit Pathwavs |  |  |
| Certificates/Diplomas | Careers \& Median Salary Information |  |
| Entry-Level Firefighter Entry-Level Firefighter <br> Emergency Medical Technician  | Legal Secretary <br> \$36,000 <br> Correctional Officer <br> \$50,700 | Fire Inspector $\$ 70,000$ |
|  |  | Fire Fighter $\$ 67,600$ |
| Associate Degrees  Careers \& Median Salary Informat <br> Criminal Justice Paralegal Studies Paralegal <br> $\$ 44,000$   |  |  |
|  |  |  |  |
|  |  |  |  |
| Bachelor Degrees | Careers \& Median S | lary Information |
| Public Health Linguistics | Private Detective $\$ 75,000$ | Intelligence Analyst $\$ 58,000$ |
| Criminology | Loss Prevention Manager $\$ 63,400$ | Arbitrator, Mediator \& Conciliator \$81,500 |

LINN-MAR
Community School District

## 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 adver tising and promotion techniques, business communication, and business development.


LINN-MAR
Community
Career Pathway: Manufacturing


A career in manufacturing requires certain skills and education depending on job requirements. Skills include planning, managing, and performing the process of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.


Career Pathway: 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, heal th informatics, support services, and biotechnology research and development.

## Exposure Pathwavs

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 |  |  |
| Earth \& Space Science PLTW Civil Engineering \& Architect Dsgn |  |  |  |

Job Shadows \& Internships

| Analytical Chemistry Research | Conservation Biology Research |
| :--- | :--- |
| CAD Design | Organic Chemistry Assistant |
| Chemistry Lab |  |
| Civil \& Electrical Engineering | Maintenance |

Learn more \& apply
(?) Learn more \& apply

Venture Earth Science (Earth Science, Venture Earth Science)
Venture Life Science (General Biology, Venture Life Science)
_Venture Environmental Science (AP Environmental Science, Venture)
VentureBiomedical Science(PLTW Biomedical Science, VentureBiomedical Science)

Experience Pathways
College CTE Courses in High School
Kirkwood Career Academies

| Math and Society | Human Anatomy I |
| :--- | :--- |
| Nutrition | Human Anatomy II |


| Adv.Mnfg w/ Robotics \& Welding | Computer Programming \& Web |
| :--- | :--- |
| Architectural \& Engineering | Development |
| Design (Pre-Apprenticeship) | Pre-Professional Health Careers |


| Pursuit Pathways |  |
| :--- | :--- |
| Certificates/Diplomas |  |
| Industrial Robotics | Network Security |
| Database Technologies | Network \& System Admin. |
| Java Programming | PC Technician |
| Mobile AppDevelopment | CAD/Mechanical Eng. Tech. |
| NET Programming | Desktop Customer Service |
| Healthcare IT Technician | Electromechanical Tech. |

## Linn-Mar High School Program of Studies

## 2023-2024

## Career Pathway: Science, Technology, Engineering \& Math



Explore other Education \&
Training in the ICR Region

## Career Pathway: Transportation

LINN-MAR
Community School District

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.


Automotive Technology \& Collision Repair

## Pursuit Pathways

| Certificates/Diplomas | Careers\& MedianSalary Information |  |
| :--- | :--- | :--- |
| Automotive Collision Repair | Transportation Vehicle, | Cargo and FreightAgents |
|  | Equipment and Systems | $\$ 33,000$ |
|  | Inspectors | Traffic Technicians |
|  | $\$ 83,000$ | $\$ 31,000$ |
|  | Customs Brokers |  |
|  | $\$ 59,000$ |  |


| Associate Degrees | Diesel Truck Technology | Careers \& Median Salary Information |  |
| :--- | :--- | :--- | :--- |
| Signal and Track Switch |  |  |  |
| Automotive Technology |  | Aviation Inspectors <br> Repairers <br> $\$ 36,000$ |  |
| Diesel Ag Technology |  |  |  |
|  |  |  |  |




[^0]:    * If any test is required by state legislative or Department of Education action, it will be added to this listing for the year required.

