

LINCOLN HIGH SCHOOL

COURSE CATALOG

2019–2020



VISION

ABRAHAM LINCOLN HIGH SCHOOL WILL BECOME A COMMUNITY
LEADER IN URBAN EDUCATION.

MISSION

TO EMPOWER ALL STUDENTS BY PROVIDING RIGOROUS AND RELEVANT
EXPERIENCES IN PREPARATION FOR SUCCESS IN A GLOBAL SOCIETY.

Educational Equity Statement

The Des Moines Independent Community School District does not discriminate on the basis of race, color, national origin, gender, disability, religion, creed, age (for employment), marital status (for programs), sexual orientation, gender identity and socioeconomic status (for programs) in its educational programs and its employment practices.

The Des Moines Independent Community School District offers career and technical programs in the following service areas: Agriculture, Food, & Natural Resources; Arts, Communication, & Information Systems; Applied Sciences, Technology, Engineering, & Manufacturing; Health Sciences; Human Services; and Business, Finance, Marketing, & Management. Career & Technical Education courses delivered at home high schools have no admissions requirements beyond the prerequisites listed with the course description. Central Campus is open to all qualifying high school students regardless of home district. Criteria for enrollment in Central Campus programming with requests exceeding capacity is as follows: the student expresses strong interest in a career path, is credited as a junior or senior (does not apply to courses designed for sophomores or three-year programs), has met prerequisites at their home high school, is on track to graduate, has a strong attendance record, demonstrates strong citizenship skills, and enrollment would increase opportunities for underserved populations. No one indicator is a deciding factor in enrollment. Students not meeting these criteria may work with their counselor and school administrator to seek an exception

There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact Isaiah McGee, Equity Coordinator, 2323 Grand Ave, Des Moines, IA 50312; phone: 515-242-7662. Complaints can also be directed to the Iowa Civil Rights Commission, 400 E. 14th Street, Des Moines, IA 50319-1004, (515) 281-4121, or Region VII Office for Civil Rights, Citigroup Center 500 W. Madison Street, Suite 1475 Chicago, IL 6066



Table of Contents

Educational Equity Statement	page 2
High School Graduation Requirements	page 4
21st Century Skills Graduation Requirement	page 4
Post-Secondary Admissions Requirements	page 5
Advanced Placement and Dual Credit courses	page 6
High School Credit/Graduation Check	page 7
Art Courses	page 8
Career & Technical Education Courses	page 9
Business & Technology Courses	page 9
Family and Consumer Science Courses	page 11
Industrial Technology Courses	page 13
Language Arts Courses	page 15
Mathematics Courses	page 17
Music Courses	page 18
Physical Education Courses	page 19
Science Courses	page 20
Social Science Courses	page 22
World Language Courses	page 24
Miscellaneous Courses	page 25
ELL Courses	page 26
Special Education Courses	page 27
Central Academy & Central Campus Courses	page 28



= Course required for graduation



= Course offers DMACC college credit (credits are FREE to the students)



= Course is NCAA approved

Graduation Requirements

REQUIREMENTS	UNITS OF CREDIT
Social Studies REQUIRED: US History, US Government, Economics or Microeconomics, and 1.0 additional credit in history	3.0
English REQUIRED: English I, II, and English III or AP Lang and Comp, and 1.0 additional credit in English	4.0
Mathematics REQUIRED: Semester 1 and 2 of Algebra I (or higher level math course)	3.0
Science HIGHLY RECOMMENDED: Biology, Chemistry, Physics, Earth Science	3.0
Applied/Fine Arts	1.5
Physical Education REQUIRED: In compliance with Iowa law, students must be enrolled in physical education at least 1 semester each year while in high school, and must complete CPR training.	1.0
Electives	7.0
<hr/>	
Financial Literacy (Personal Finance Management)	.5
<hr/>	
TOTAL	23

21st Century Skills Graduation Requirement

As a part of the 23 required credits for graduation, all students must complete coursework in Financial Literacy, Health Literacy, Technology Literacy, and Employability Skills. Beginning with the class of 2021, students will be required to complete a Family Life and Consumer Sciences course in addition to Financial, Health, Tech, and Employability requirements to meet the 21st Century Skills graduation requirements. The courses that meet each of these requirements are noted with the symbols below throughout the course catalog. Students must complete at least one course from each category of skills.

Employability Skills:



Financial Literacy:



Technology Literacy:



Health Literacy:



Post-Secondary Readiness Requirements

There are several paths that students can choose from for success after completing high school. The guide below can help students and their families have conversations with school counselors as they make decisions about their goals for after graduation and the choices they need to make in high school to reach those goals.

Subject	High School Diploma	Career & Technical, Apprenticeship, and Industry Certification Programs	Regents Institutions (U of I, UNI, ISU)	Highly Selective Colleges & Universities
English	English I, II, and English III or AP Lang and Comp, and 1.0 additional credit in English	English I, II, and English III or AP Lang and Comp, and 1.0 additional credit in English	Four years with an emphasis on the communication skills of writing, reading and listening, and the analysis and interpretation of literature. In addition, courses in journalism and media literacy will be valuable.	Four years with an emphasis on the communication skills of writing, reading and listening, and the analysis and interpretation of literature, including AP credit. In addition, courses in journalism and media literacy will be valuable. Extracurricular activities in debate, speech, newspaper, and yearbook will further develop essential competencies.
Math	Semester 1 and 2 of Algebra I (or higher level math course), and 2.0 additional credits in Math.	Semester 1 and 2 of Algebra I (or higher level math course), and 2.0 additional credits in Math.	Four years, one in each year of high school. While advanced courses like calculus and statistics are good, it's more important that you gain a complete understanding of advanced algebra and trigonometry.	Four years, one in each year of high school, including advanced math courses like calculus and statistics.
Science	3.0 credits in Science.	3.0 credits in Science.	Three years, one in each year of high school. To be really prepared, take at least one year each of biology, chemistry, and physics.	Four years, one in each year of high school. To be really prepared, take at least one year each of biology, chemistry, and physics, and an AP Science course.
Social Studies	US History, US Government, Economics or Microeconomics, and 1.0 additional credit in history	US History, US Government, Economics or Microeconomics, and 1.0 additional credit in history	Three years are essential, but four is better. Take at least one year each of U.S. history and world history. Additional courses in anthropology, economics, political sci., psychology, and sociology provide important understandings.	Four years, one in each year of high school. Take at least one year each of U.S. history and world history, and an AP Social Studies course. Additional courses in anthropology, economics, political sci., psychology, and sociology provide important understandings.
Applied/Fine Arts	1.5 credits in the Applied or Fine Arts.	1.5 credits in the Applied or Fine Arts.	1.5 credits in the Applied or Fine Arts.	1.5 credits in the Applied or Fine Arts.
World Languages	World Languages count toward the 7.5 required elective credits.	World Languages count toward the 7.5 required elective credits.	World Languages count toward the 7.5 required elective credits.	World Languages count toward the 7.5 required elective credits.
Physical Education	At least one semester each year of high school, and must complete CPR training.	At least one semester each year of high school, and must complete CPR training.	At least one semester each year of high school, and must complete CPR training.	At least one semester each year of high school, and must complete CPR training.

Dual Credit and AP Courses

Lincoln offers both Advanced Placement courses, where students can earn college credit based on the results of an end-of-course exam and Dual credit courses, where students are concurrently enrolled at DMACC while taking their course at Lincoln. Some classes at Lincoln are both AP courses and Dual credit courses. Below is some information about the differences between both types of courses, as well as the advantages and disadvantages to both.

Advanced Placement

- ◆ Courses developed by committees of experts representing universities across the United States
- ◆ Quality varies from teacher to teacher, so students take an end-of-course AP exam that is developed and scored externally by professors and discipline experts, verifying the extent to which the student has mastered the college-level material
- ◆ Because there is an external assessment, credit for AP courses is granted by most (94% of) US colleges and universities
- ◆ Because there is an external assessment, AP is a valuable indicator in the college admissions process of a student's ability to succeed in college

Advantages

Feedback for students and teachers

Standardized curriculum, training and syllabus

Recognized across the country and worldwide as a rigorous curriculum

Ability to earn scholarships and national recognition

Can be transferred from school to school

Disadvantages

Must pass AP Exam to earn college credit

Must pay testing fee (these fees are covered for some AP Courses due to grants and for students in the Free Reduced Lunch Program)

Dual Credit

- ◆ Courses developed by local community colleges
- ◆ Quality varies from teacher to teacher, no external assessment to verify the rigor and quality of the course
- ◆ Because there is no external assessment, dual credit courses are not as widely recognized for credit as AP courses
- ◆ Because there is no external assessment, dual credit courses are less valuable indicators in the college admissions process of a student's ability to succeed in college
- ◆ Grades earned in dual credit courses begin a student's college transcript.

Advantages

In many cases, no test is required to earn credit

Credit is accepted at most state institutions (often awarded as general transfer credit rather than credit for the specific course taken)

DMACC credit can be transferred easily to Regents schools in Iowa as transfer credit

Disadvantages

Credit awarded depends on the receiving college/university

No uniform curriculum, training or syllabus

Credits may not transfer between colleges

DES MOINES PUBLIC SCHOOLS GRADUATION REQUIREMENTS

English & Language Arts (4 credits)		Credits
English I s1:		
English I s2:		
English II s1:		
English II s2:		
English III S1/Equivalent:		
English III s2/Equivalent:		
English IV s1/Equivalent:		
English IV s2/Equivalent:		

Social Studies (3 credits)		Credits
History s1:		
History s2:		
US History s1:		
US History s2:		
US Government:		
Economics:		

Science (3 credits)		Credits
Science Class:		

Mathematics (3 credits)		Credits
Algebra I s1:		
Algebra I s2:		
Math Class:		

Electives (7.5 Credits)		Credits
Elective #1:		
Elective #2:		
Elective #3:		
Elective #4:		
Elective #5:		
Elective #6:		
Elective #7:		
Elective #8:		
Elective #9:		
Elective #10:		
Elective #11:		
Elective #12:		
Elective #13:		
Elective #14:		
Elective #15:		

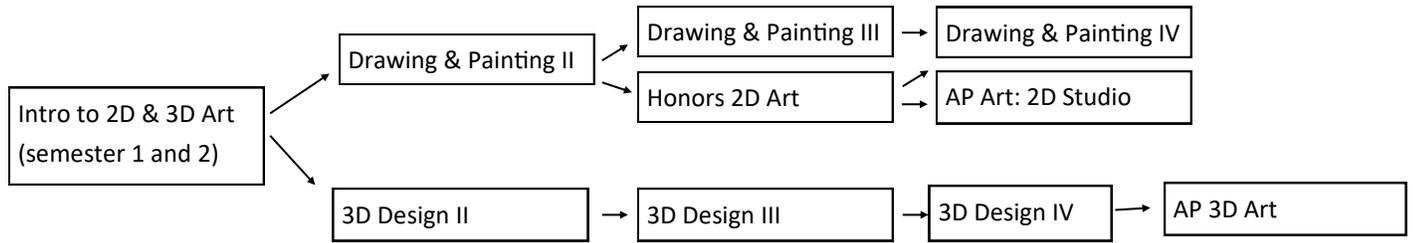
Applied/Fine Arts (1.5 credit)		Credits
FAA Class #1:		
FAA Class #2:		
FAA Class #3:		

Physical Education (1.0 Credit)		Credits
Class:		
Class:		
CPR		Y/N

21st Century Skills		
Employability:		Y/N
Financial:		Y/N
Health:		Y/N
Technology:		Y/N

Art

Art Pathway of Study:



Intro to 2D & 3D Art

ART101,102

Prerequisite: None

Grades: 9-12

(Year-long course) 1.0 Credit

Credit type: Applied/Fine Arts

This course is an introductory, foundational level study of all visual art standards and requires no previous art experience. Students use a variety of media, techniques and processes to express meaning and solve visual arts and creative problems.

Drawing & Painting II

ART201,202

Prerequisite: Intro to 2D & 3D Art

Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Applied/Fine Arts

This course is a further exploration of all visual art standards through the drawing and painting media such as acrylic, watercolor, oil pastels and charcoal. This course is recommended for students considering careers requiring artistic skill.

3D Design II

ART211,212

Prerequisite: Intro to 2D & 3D Art

Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Applied/Fine Arts

This course is a further exploration of all visual art standards through the three dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media.

Drawing & Painting III

ART301,302

Prerequisite: Drawing & Painting II

Grades: 11-12

(Year-long course) 1.0 Credit

Credit type: Applied/Fine Arts

This course is an advanced study of all visual art standards through the drawing and painting media. This course is recommended for students considering careers in architecture, art education, art history, graphic design, illustration, interior design, or studio art.

3D Design III

ART311,312

Prerequisite: 3D Design II

Grades: 11-12

(Year-long course) 1.0 Credit

Credit type: Applied/Fine Arts

This advanced course is a further exploration of all visual art standards through the three dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media. This course is recommended for students considering careers in architecture, art education, art history, ceramics, interior architecture, interior design, landscape design, or studio art.

Drawing & Painting IV

ART401,402

Prerequisite: Drawing & Painting III

Grades: 12 (Year-long course) 1.0 Credit

Credit type: Applied/Fine Arts

This advanced studio course is a study of all visual art standards through the drawing and painting media. This course is recommended for students considering careers in architecture, art education, art history, graphic design, illustration, interior design, or

3D Design IV

ART411,412

Prerequisite: 3D Design III

Grades: 12 (Year-long course) 1.0 Credit

Credit type: Applied/Fine Arts

This advanced course is a further exploration of all visual art standards through the three dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media. This course is recommended for students considering careers in architecture, art education, art history, ceramics, interior architecture, interior design, landscape design, or studio art.

Honors 2D Art

ART403,404

Prerequisite: Drawing & Painting II or instructor approval

Grades: 11 (Year-long course) 1.0 Credit

Credit type: Applied/Fine Arts

This advanced level course emphasizes making art as an ongoing process that involves the students in critical decision making; helps students develop technical skills and familiarizes them with the functions of the visual elements. The course encourages systematic, creative, investigation of formal and conceptual issues. This course provides an opportunity for future AP students to begin work on their portfolios.

AP Art: 2D Studio or Drawing Studio

ART501,502

Prerequisite: Drawing & Painting II or instructor approval

Grades: 11-12 (Year-long course) 1.0 Credit

Credit type: Applied/Fine Arts

This weighted, advanced level course emphasizes making art as an ongoing process that involves the students in critical decision making; helps students develop technical skills and familiarizes them with the functions of the visual elements. The course encourages systematic, creative, investigation of formal and conceptual issues. An AP Portfolio is a performance-based exam. Each portfolio requires submission of three distinct sections. These sections require the student to demonstrate quality, in-depth engagement (concentration), and breadth of work.

AP 3D Art

ART507, 508

Prerequisite: Drawing & Painting II or instructor approval

Grades: 11 (Year-long course) 1.0 Credit

Credit type: Applied/Fine Arts

This weighted, advanced level course emphasizes making art as an ongoing process that involves the students in critical decision making; helps students develop technical skills and familiarizes them with the functions of the visual elements. The course encourages systematic, creative, investigation of formal and conceptual issues.



Career & Technical Education

CTE: Business & Technology

Future Ready: CTE101 Career & Academic Planning, 1 semester	Tech Seminar: BUS101 Intro to Business/Technology, 1 semester	Intro to Computer Science (PLTW): TEC161 1 semester
Personal Financial Management: BUS323/College BUS532 1 semester		Computer Applications: BUS333/College BUS531 1 semester <i>***Beginning Computer Applications for ELL: BUS111***</i>
* General Business – Commerce * * Marketing - Management * * Office - Technology *		
Intro to Business: BUS103 1 semester	Marketing- Principles: BUS311 1 semester	PowerPoint & Multimedia: BUS337/College BUS525 1 semester
General Business: BUS105 1 semester	Marketing- Retail: BUS312 1 semester	Intro to Website: BUS103/College BUS521 1 semester
Accounting: BUS301/College533 1 semester	Marketing- Sales: BUS313/CollegeBUS529 1 semester	Desktop Publishing: BUS103/College BUS527 1 semester
International Business: BUS325 1 semester	Marketing- Entrepreneurship: BUS314/College BUS530 1 semester	
Business Law: BUS321 1 semester		
Work Based Learning Opportunities: Earn while you learn! Multi-Occupations Coop (Currently- Marketing Coop): BUS353-354 / College 537-538		
Postsecondary Opportunities: * DMACC: Business Commerce, General * DMACC: Business-Marketing, Management * DMACC: Administrative Assistant * 4-Year Universities: Multiple Business Degrees *		

Future Ready: Academic & Career Planning CTE101

Prerequisite: None

Grades: 9

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts

Future Ready will direct students in career and academic planning. Students will be exposed to all types of post-secondary options. Future Ready will meet graduation requirements including Health Literacy, Financial Literacy, Technology Literacy, and Employability Skills. Future Ready will help prepare students for life after high school, wherever their path may lead!

Beginning Computer Applications BUS111

Prerequisite: None

Grades: 9-12

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts

Beginning Computer Applications is designed specifically for students new to computer applications and/or new to the English language. Students will be introduced to word processing, database, presentation, and spreadsheet functions. Students will complete projects in each topic. This course will help students to develop skills needed for both professional, educational, and personal use.

Future Set: Academic & Career Planning CTE301

(course formerly titled Adult Living Skills)

Prerequisite: None

Grades: 11-12

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts

Starting to feel nervous about graduating and moving out on your own? Do you feel ready for that next step after high school? Are you worried about handling life on your own? Future Set is a student driven curriculum course that is designed to answer all of your burning questions about life after high school! This course will cover post-secondary education/training, career readiness, housing decisions and personal financial decision making to make you successful as you navigate the world of adulthood.

College Computer Applications BUS531

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts

Computer Applications includes modern information processing techniques with an emphasis on the use of electronic databases and spreadsheets. The course also stresses the importance of human relations and communication skills necessary for job success, the development of marketable skills using the most current procedures and technologies, and application of time management and decision-making skills.



Intro to Business

BUS103

Prerequisite: None
Grades: 9
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts



Introduction to Business offers students the opportunity to examine a variety of careers in the business and marketing area. The course will include some activities designed to help students assess their interests, aptitudes, and abilities and match them with the requirements of various occupations. Activities such as resume writing, interviewing, problem solving, and working with groups will be included in order to help students develop skills to obtain and keep a job.

General Business

BUS105

Prerequisite: None
Grades: 9
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts



General Business is designed to enhance students' understandings of the role businesses play in our present-day economic system. Topics include: banking, careers, insurance, personal investment, consumerism, credit and marketing.

PLTW: Intro to Computer Science

TEC161

Prerequisite: None
Grades: 9-12
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts

Designed to be the first computer science course for students who have never programmed before, Introduction to Computer Science is an optional starting point for the PLTW Computer Science Program. Students work in teams to create apps for mobile devices using MIT App Inventor. They explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond learning the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis. In addition, students transfer the understanding of programming gained in App Inventor to text-based programming in Python and apply their knowledge to create algorithms for games of chance and strategy.

Business Law

BUS321

Prerequisite: None
Grades: 10-12
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts

The main objective of this course is to help students understand the basic legal principles relevant to each individual's personal and professional life. Topics include the law relating to youth rights and responsibilities, drugs, contracts, property, credit, insurance, investments, auto negotiable instruments, and ailments. Emphasis will be placed on helping students recognize those situations that occur in life that require assistance from legal professionals.

Personal Finance Management

BUS323

Prerequisite: None
Grades: 12 Grade Only
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts



Students will study the management of personal, family and business finances, including budgeting, consumer buying, personal credit, savings and investing, home ownership, insurance, and retirement. This course will help prepare all students for their financial challenges now and in the future.

College Accounting 1

BUS533

Prerequisite: None
Grades: 10-12
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts



An understanding of the purpose of the accounting function will be developed during Accounting 1. This course will also assist students in the development of a vocabulary and in the acquisition of the skills and general information necessary to perform the accounting function.

Marketing / Principles

BUS311

Prerequisite: None, Co-requisite: Marketing Co-op
Grades: 10-12
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts



This course will provide a broad overview of the marketing process and the role that marketing plays in our lives. Various marketing functions such as research, transportation, warehousing, advertising, promotion, pricing and selling will be studied. There will be a heavy emphasis on occupational opportunities and requirements in each area.

College Marketing / Entrepreneurship

BUS530

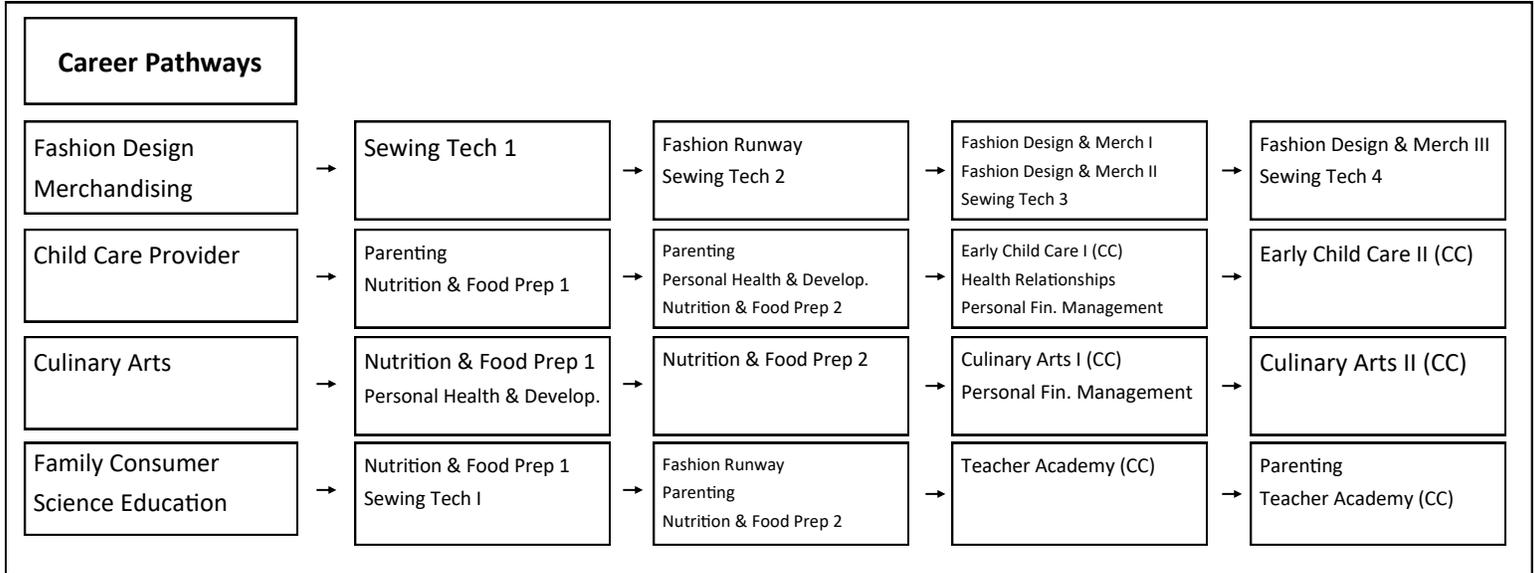
Prerequisite: None
Grades: 11-12
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts



The steps necessary when starting and managing a business will be covered in this course. The relationship of information-gathering and decision-making in business organization and management is emphasized. Personal traits and characteristics of entrepreneurs and managers will be investigated. The nature of risk and the role it and management play in our economy will be studied. Management styles and philosophies will be discussed the use of guest entrepreneurs.



CTE: Family & Consumer Science



Personal Health & Development

FCS101

Prerequisite: None

Grades: 09

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts



Personal Development & Health is a course designed to provide students with information about how to develop a healthy lifestyle. The topics include social health, emotional health, nutrition and weight control, substance abuse, sexually transmitted diseases, and pregnancy prevention. Students will apply problem solving and decision making skills while examining the interrelationship between physical, emotional, mental, and social health.

Future Ready: Academic & Career Planning

CTE101

Prerequisite: None

Grades: 9

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts



Future Ready will direct students in career and academic planning. Students will be exposed to all types of post-secondary options. Future Ready will meet graduation requirements including Health Literacy, Financial Literacy, Technology Literacy, and Employability Skills. Future Ready will help prepare students for life after high school, wherever their path may lead!

Nutrition & Food Prep 1

FCS107

Prerequisite: None

Grades: 09-12

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts



In Nutrition and Food Prep I, students will apply nutrition principles to personal diet planning and develop skills for selection, care, and preparation of a variety of food. Labs are designed to help students practice safe food preparation techniques and develop basic preparation techniques. Cooking labs include the categories of fruits and vegetables; milk, egg, and plant proteins; grains, pastas, and starches; and basic baking techniques. Students will cook a wide variety of foods, from breakfast to main dishes to desserts.

Future Set: Academic & Career Planning

CTE301

(course formerly titled *Adult Living Skills*)

Prerequisite: None

Grades: 11-12

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts



Starting to feel nervous about graduating and moving out on your own? Do you feel ready for that next step after high school? Are you worried about handling life on your own? Future Set is a student driven curriculum course that is designed to answer all of your burning questions about life after high school! This course will cover post-secondary education/training, career readiness, housing decisions and personal financial decision making to make you successful as you navigate the world of adulthood.

Nutrition & Food Prep 2

FCS109

Prerequisite: Nutrition & Food Prep 1

Grades: 09

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts



In Nutrition and Food Prep 2, students will develop skills in meal management to meet individual and family food needs and understand principles of economics and ecology for cost savings. Students will build on the basic skills learned in Nutrition & Food Prep 1 by investigating a more scientific approach to food preparation. Cooking labs include a wide range of foods, such as quick and easy main dishes; scratch-made yeast breads, pies, cakes, and gourmet desserts; and a variety of ethnic foods. Students also explore how to combine and plate aesthetically pleasing and nutritious meals and investigate at least one career opportunity.



Parenting: Conception-Toddler

FCS103

*Prerequisite: None**Grades: 09-12**(Semester course) 0.5 Credit**Credit type: Applied/Fine Arts*

This course will include sexual health, conception, pregnancy and birth. Students will examine the decisions and responsibilities that go into planning a pregnancy. Students will develop skills in the care and guidance of children from birth through toddler. Students will participate in many activities designed to simulate the physical, social, emotional, and intellectual development of children. Students will study human development from conception through age 3. After taking this course, students will understand the importance of growth and development of children of all ages, appreciate the responsibilities of being a parent, planning for a healthy pregnancy, will explore child-related careers and be able to appropriate care for a child.

Parenting: Preschool-Adolescent

FCS203

*Prerequisite: None**Grades: 10-12**(Semester course) 0.5 Credit**Credit type: Applied/Fine Arts*

Students will develop skills in the care and guidance of children from preschool to adolescent. Students will examine various types of parenting styles and determine which styles are most effective. Students will participate in many activities designed to simulate the physical, social, emotional, and intellectual development of preschool children and teens. Students will study human development from age 4 to adolescence with the interrelationship of all areas of development; physical, social-emotional, and intellectual. After taking this course, students will understand the changing needs of a child as they grow and develop.

Health Relationships

FCS201

*Prerequisite: None**Grades: 10-12**(Semester course) 0.5 Credit**Credit type: Applied/Fine Arts*

The Relationships course prepares students for a mature adult role as a single person or a marriage partner through the study of human development and relationships. The coordination of personal, marriage, family and career goals will be explored as well as resources for adjusting to change and crisis. Students will analyze skills needed to establish positive relationships with others and make health relationship choices regarding sexual activity. Students will study various relationships through the course of the life cycle. They will learn how to improve relationships as well as explore resources for adjusting to change and crisis.

**Sewing Technology 1**

FCS113

*Prerequisite: None**Grades: 10-12**(Semester course) 0.5 Credit**Credit type: Applied/Fine Arts*

In this course, students will use technology and sewing techniques to construct clothing and textile products. Students will create projects such as a pine cushion, stuffed animal, pillow, portfolio, kitchen apron, and pajama pants. This course offers students the opportunity for hands-on learning and an outlet to express their creativity.

Sewing Technology 2

FCS205

*Prerequisite: Sewing Technology 1**Grades: 10-12**(Semester course) 0.5 Credit**Credit type: Applied/Fine Arts*

In Sewing Technology 2, students will experiment with more advanced sewing technology and techniques to construct clothing and textile products. Students will create projects such as a bag, pillow, zipper bag, pattern pouch, a sleeve project, and a project of their choice.

Advanced Sewing Technology 3

FCS305

*Prerequisite: Sewing Technology 2**Grades: 11-12**(Semester course) 0.5 Credit**Credit type: Applied/Fine Arts*

In Advanced Sewing Technology 3, students will continue to advance their skills in the selection, purchase, construction and alternation of clothing and textiles. Students will need to purchase and bring materials, patterns and notions throughout the semester for individual projects. In this class students will create projects with the following design elements: pleats, gathers, tucks, darts, and waistbands.

Advanced Sewing Technology 4

FCS405

*Prerequisite: Sewing Technology 3**Grades: 11-12**(Semester course) 0.5 Credit**Credit type: Applied/Fine Arts*

In Advanced Sewing Technology 4, students will continue to advance their skills in the selection, purchase, construction and alternation of clothing and textiles. Students will need to purchase and bring materials, patterns and notions throughout the semester for individual projects. In this class students will create projects with the following design elements: collar, closure, sleeve, cuff, lining and pockets.

Advanced Sewing Technology 5

FCS406

*Prerequisite: Sewing Technology 4**Grades: 12**(Semester course) 0.5 Credit**Credit type: Applied/Fine Arts*

In Advanced Sewing Technology 5, students will continue to advance their skills in the selection, purchase, construction and alternation of clothing and textiles. Students will need to purchase and bring materials, patterns and notions throughout the semester for individual projects. In this class students will create their own line of clothing following design principles to be displayed in the school fashion show.

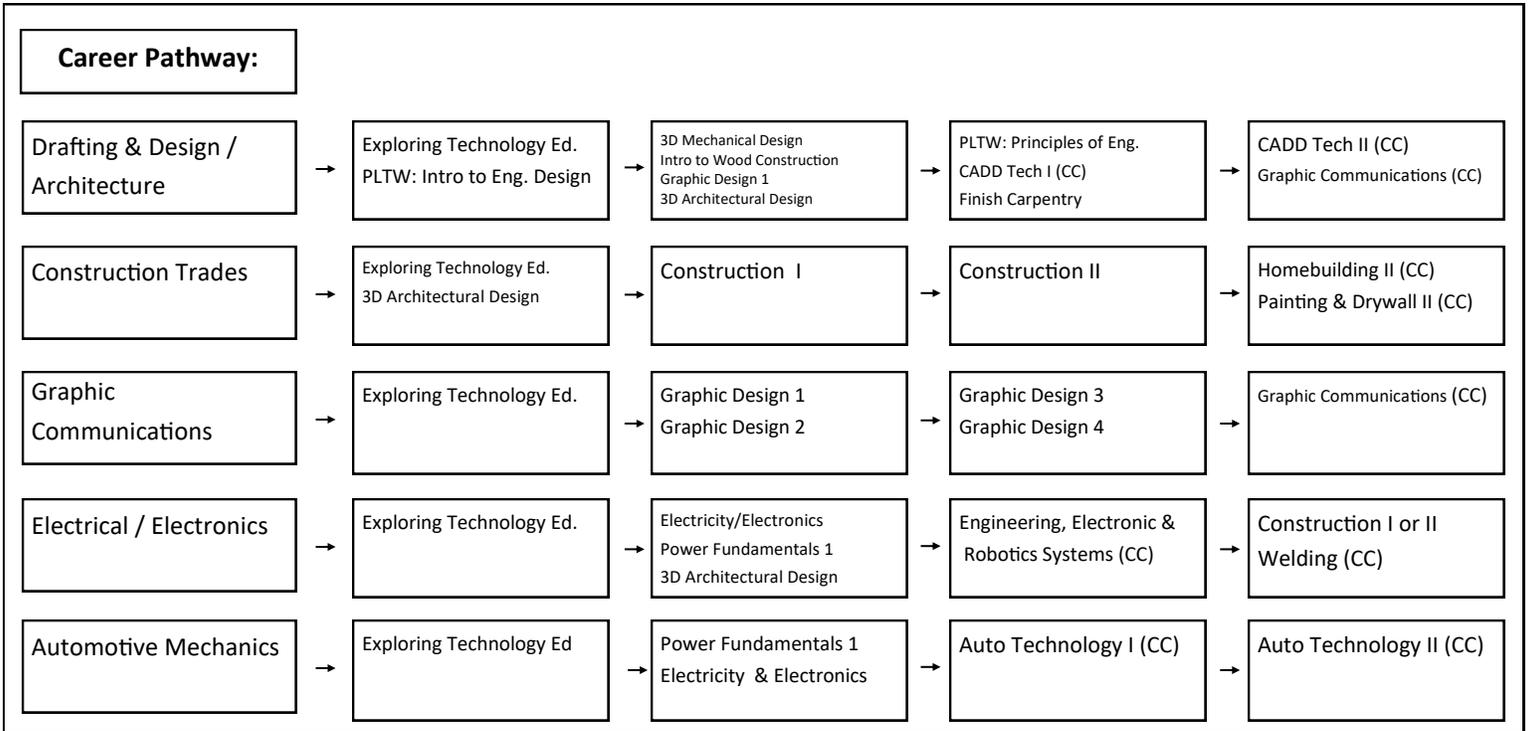
Advanced Sewing Technology 6

FCS407

*Prerequisite: Sewing Technology 5**Grades: 12**(Semester course) 0.5 Credit**Credit type: Applied/Fine Arts*

In Advanced Sewing Technology 6, students will continue to advance their skills in the selection, purchase, construction and alternation of clothing and textiles. Students will need to purchase and bring materials, patterns and notions throughout the semester for individual projects. In this class students will create their own line of clothing following design principles to be displayed in the school fashion show.

CTE: INDUSTRIAL TECHNOLOGY



Exploring Technology Education

TEC101

Prerequisite: None

Grades: 09

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts



This course includes learning experiences in the four technological areas of graphic communications, wood/construction, metals, and drafting. In these four areas students will develop introductory skills in safety, positive work attitudes, the use of tools, equipment, processes and materials, and the application of basic working skills. These competencies and learning experiences will assist the students in identifying their career goals as it relates to the programs at Central Campus and their home high school.

Drafting: 3D Architectural Design & Development

TEC205

Prerequisite: Drafting: 3D Mechanical Design & Development

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts



Students will be introduced to the universal language of the Construction Industry. Students will obtain knowledge and skills relating to the various fields of engineering; such as, construction, mechanical, industrial, structural, and civil, as well as, the fields of residential and commercial architecture. Students will apply computer aided design and development (CADD) skills to create construction drawings.

Future Ready: Academic & Career Planning

CTE101

Prerequisite: None

Grades: 9

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts



Future Ready will direct students in career and academic planning. Students will be exposed to all types of post-secondary options. Future Ready will meet graduation requirements including Health Literacy, Financial Literacy, Technology Literacy, and Employability Skills. Future Ready will help prepare students for life after high school, wherever their path may lead!

Graphic Design Fundamentals 1

TEC223

Prerequisite: None

Grades: 09-12

(Semester course) 0.5 Credit

Credit type: Applied Fine Arts



The student will experience a wide range of hands-on experiences and knowledge of modern printing processes and careers. The students will design and produce various products using appropriate printing technology. During the semester, students will be introduced to publication design, desktop publishing, electronic imaging, process photography including halftone photography, image assembly/plate making, offset lithography including multi-color printing, silk-screen printing and bindery/finishing.

Drafting: 3D Mechanical Design & Development

TEC203

Prerequisite: None

Grades: 09-12

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts



Students will be introduced to the universal language of the mechanical design and development industry. Students will apply the basic skills such as measurement and problem solving in the areas of lettering, free hand sketching, geometric construction, multi-view drawings, pictorial drawing, dimensioning, and section drawings. Students will apply computer aided design and development (CADD) skills to create these drawings.

Graphic Design Technology 2

TEC225

Prerequisite: Graphic Design Fundamentals 1

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: Applied/Fine Arts



Through hands-on and problem-solving activities the student will gain additional knowledge and skills in the current technology relating to the materials processes, equipment, products, and the careers in the Graphic Arts industry. This course will introduce the students to halftone and special effects photography, multi-color reproduction processes, and the various computer applications in design as well as job cost estimating and production scheduling which are part of Graphic Arts management.

Advanced Graphic Design Tech TEC307
Prerequisite: Graphic Design Technology 2
Grades: 11-12
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts

The student's knowledge and skill base will continue to grow in this advanced course, as the students will develop their own multi-color projects as designed by both the student and the teacher.

Power Fundamentals 1 TEC215
Prerequisite: None
Grades: 10-12
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts



The student will gain knowledge of the basic physical and mechanical principles related to the transportation field. Through classroom instruction, demonstration, hands-on and problem-solving activities, the student will gain knowledge and skills in the operation and servicing of small engines such as lawnmowers, snow blowers, and go-karts. Emphasis is placed on the operation and servicing of engine systems. The student will also learn to apply safety as it relates to the vehicle, power tools, test equipment, and materials.

Electricity & Electronics TEC361
Prerequisite: None
Grades: 10-12
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts

Through classroom and lab activities students will gain skills and knowledge in the areas of basic DC and AC circuits, circuit components, codes, testing, electromagnetism and inductance, capacitance, power supplies, power generation and distribution, amplification and digital circuits. Students will learn the safe use of the tools, test instruments, equipment and supplies used in this course plus information on career opportunities in this field.

Construction 1: Into to Industry TEC231
Prerequisite: None
Grades: 10-12
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts



Students will have the opportunity to earn an OSHA 10 card accepted nationwide in the construction industry. They will also receive a certificate for General Construction I. The course will utilize the Ace accredited LIUNA Training & Education fund General Construction I Curriculum. Topics include: Intro to Construction Industry, Craft Orientation, Construction Math, Back Safety & Heat Stress, Tool & Material Identification, Power Tools and Aerial Lifts. General Construction I qualifies for two college semester hours in Intro to Construction Technology or one semester hour in Intro to Construction and one semester hour in Industrial Safety.

Construction Pre-Apprentice TEC233,234
Prerequisite: Construction I
Grades: 10-12
(Year-long course) 1.0 Credit
Credit type: Applied/Fine Arts



The advanced Construction program will focus on the commercial construction process. Students will be working with experience professionals in the field as well as representatives of local contractors and Local apprenticeships programs. The course will be utilizing the Ace accredited LIUNA Training & Education fund General Construction II Curriculum. Topics include: Employability Skills, Hoisting & Rigging, Cutting & Burning, Concrete, Pipe Laying, Blue Print Reading, Line & Grade, Ladders and Scaffolds. Throughout the school year, students will be involved in building a community project. General Construction II qualifies for three college semester hours in Intro to Construction Technology. Completion of this course qualifies for direct entry into LIUNA's Construction Craft Laborers' Apprenticeship Program.

PLTW: Intro to Computer Science TEC161
Prerequisite: None
Grades: 9-12
(Semester course) 0.5 Credit
Credit type: Applied/Fine Arts




Designed to be the first computer science course for students who have never programmed before, Introduction to Computer Science is an optional starting point for the PLTW Computer Science Program. Students work in teams to create apps for mobile devices using MIT App Inventor. They explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis.

PLTW: Intro to Engineering Design (college) TEC501,502
Co-requisite: Algebra I; proficient in math
Grades: 09-12
(Year-long course) 1.0 Credit
Credit type: Applied/Fine Arts





This is the first year foundation course of the national pre-engineering program, Project Lead the Way. This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.

PLTW: Principles of Engineering Design (college) TEC503,504
Prerequisite: TEC501,502
Grades: 10-12
(Year-long course) 1.0 Credit





This is the second year foundation course in the national pre-engineering program, Project Lead the Way. This course helps students understand the field of engineering. Exploring various manufacturing processes and technologies help students understand how engineers use math, science and technology in problem solving to benefit humans.

Intro to Wood Construction & Finish Carpentry 2 TEC211,213
Prerequisite: None
Grades: 10-12
(Year-long course) 1.0 Credit
Credit type: Applied/Fine Arts



In Intro to Wood Construction, the student will be introduced to woodworking as a career and/or avocation in Woods 1. Through a variety of hands-on, problem solving projects, students will be introduced to the safe use, care and maintenance of various hand tools, power tools, and stationary equipment. Projects will be produced using a variety of processing techniques and technologies used in the woodworking industry. Finish Carpentry 2 will build upon the wood construction skills, knowledge and problem solving abilities acquired in Intro to Wood Construction 1. The course is designed to provide students with an understanding of technology and its impact on the industry. Students will continue to work with the CNC equipment in the production of their projects. Students will have the opportunity to explore the impact of technology on the construction industry. Students will continue to build upon their skills from other academic areas as they interpret technical information from a variety of technical sources, calculate materials needed, materials strength and building design.

Finish Carpentry 3 & 4 TEC301,302
Prerequisite: Woodworking Fundamentals 2
Grades: 11-12
(Year-long course) 1.0 Credit
Credit type: Applied/Fine Arts

This advanced course is available to students to continue to develop machine techniques as they construct various projects including cabinets, tables, and other finish carpentry construction applications. Individual projects will be developed by the student and teacher together.

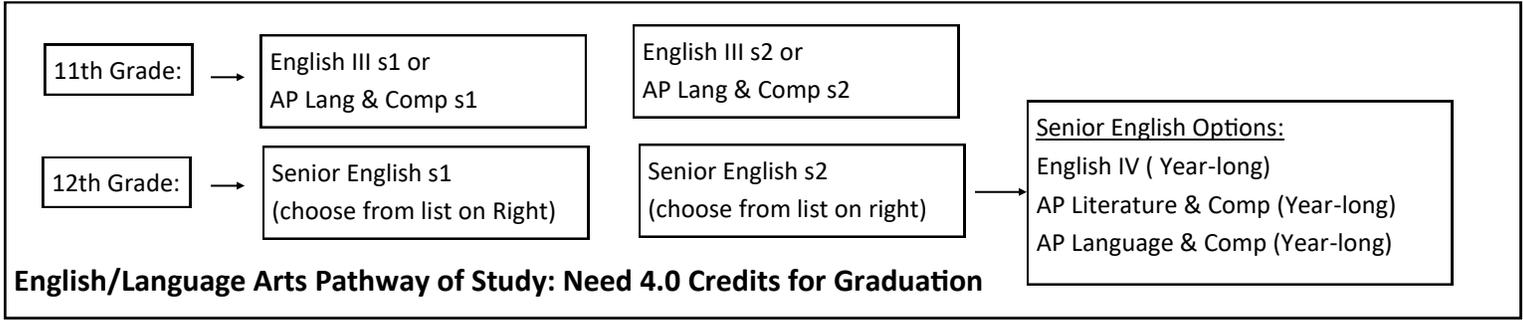
Prerequisite: Algebra I

Grades: 10-12

This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning and computational content, develops computational thinking skills, and engages students in the creative aspects of the field. This course is high school elective credit, but can be math credit if the student has taken Algebra 1, Geometry, and Algebra 2. There is an opportunity to take the Advanced Placement exam in May and earn college credit with a passing score.



English/Language Arts



English I LA103,104
Grades: 09
(Year-long course) 1.0 Credit
Credit type: English

English I develops basic structures of reading and writing, using a variety of works from diverse authors to increase student interest, awareness, appreciation, and understanding of a variety of genre as well as opportunities to apply the writing process to promote communication through written expression. Students will come to understand that personal expression and the way we express ourselves is influenced by society and culture through literary analysis, reflective writing, persuasive writing, and character analysis.

English II LA205,206
Grades: 10
(Year-long course) 1.0 Credit
Credit type: English

English II continues the development of the structures of communication with an emphasis on the language arts of speaking and listening. Through the communication of ideas in both writing and speaking, students will learn to use information responsibly, accurately, and ethically. Students will communicate through a variety of mediums, including technology, to recognize the role evaluation and response have on oral communication.

English III LA305,306
Grades: 11
(Year-long course) 1.0 Credit
Credit type: English

English III builds on the structures of reading and writing, using a variety of materials representing different literary forms and authors. An emphasis on American literature through a global perspective will support critical analysis of author's style, character motivation, point of view, mood, and tone. Composition will focus on synthesizing new understandings with background knowledge and gain insight into the author's craft while adhering to conventions generally established in conventions, usage, syntax, and style.

English IV LA403,404
Grades: 12
(Year-long course) 1.0 Credit
Credit type: English

World Literature includes a survey of world literature studied in a thematic approach to critically evaluate information based on relevancy, objectivity, and reliability . Students will write several compositions using expository and argumentative techniques, including a research project. This project will include an articulated research question or thesis statement, and incorporate findings while adhering to a consistent format for documentation.

AP Language & Composition LA501,502
Grades: 11
(Year-long course) 1.0 Credit
Credit type: English
Course has required summer reading assignment

AP Language and Composition enables a student to be an effective writer at the postsecondary level. Students read, analyze, and practice a variety of discursive prose. Through the organized study of language skills and the structures of sentences, paragraphs, and expository patterns, students analyze and implement the resources of the English language. Completion of the AP exam is an expectation for all AP courses.

AP Literature & Composition LA503,504
Grades: 12
(Year-long course) 1.0 Credit
Credit Type: English
Course has required summer reading assignment

AP English Literature and Composition is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The composition instruction ranges from basic principles to more refined and advanced matters of style, requiring several compositions ranging from the imaginative and personal to the formal and detached. Completion of the AP exam is an expectation for all AP courses.

Graphic Novels LA241

Prerequisite: None
Grades: 09
(Semester course) 0.5 Credit
Credit type: Elective

Students will read literary works that have been adapted into a graphic novel format, enabling a deeper analysis of the text involved. This course will be a collaborative learning community in which the students will explore the graphic novel medium as a mode of communicating stories, using various texts as a way to enhance, practice, and master traditional and new literacies. Graphic novels are a rich and varied form of literature and students will analyze the structure, research the history and growth of the popular culture phenomenon of graphic novels, and look closely at the effects created in sequential art narrative.

Play Production I LA131,132

Prerequisite: None
Grades: 10-12
(Year-long course) 1.0 Credit
Credit type: Applied/Fine Arts

Play Production I is a survey course of technical theatre covering set construction/ safety, costumes, make-up, publicity/programs, lights/sound, props, house management, and play reading and analysis.

Journalism LA213

Prerequisite: English I
Grades: 10-12
(Semester course) 0.5 Credit
Credit type: Elective



Journalism allows students to explore the fundamental concepts behind the communications industry, including print, broadcast and advertising and the Internet. Students will study history, writing, editing, law and the packaging process, as well as obtain the understanding of deadlines and interviewing through practical application. This course is the prerequisite for Newspaper and Yearbook.



Newspaper LA321,322

Prerequisite: Journalism
Grades: 11-12
(Year-long course) 1.0 Credit
Credit type: Elective




Newspaper is a hands-on laboratory course that allows students to apply the fundamental theories explored through journalism. Students will write, edit, package, produce and distribute the school's newspaper. Concepts emphasized include leadership, prioritizing, deadline meeting, interviewing, people-skill building, and business skills.

Theater Arts I LA129,130

Prerequisite: None
Grades: 09-12
(Year-long course) 1.0 Credit
Credit type: Applied/Fine Arts

Theatre Arts I is an introductory course that will teach students to utilize and develop self-confidence, poise, basic theatre terminology, appreciation of various dramatic forms, appropriate response, awareness of theatre production processes, understanding of literature, knowledge of theatre history, and beginning performance skills.

Yearbook LA323,324

Prerequisite: Journalism
Grades: 11-12
(Year-long course) 1.0 Credit
Credit type: Elective




Yearbook is a hands-on course that allows students to apply the fundamental theories explored through journalism in a real-world setting. Students will write, edit, package, produce and distribute the school's yearbook. Concepts emphasized include leadership, prioritizing, deadline meeting, interviewing, editing, teamwork and business skills.

Theater Arts II LA229,230

Prerequisite: Theater Arts I
Grades: 10-12
(Year-long course) 1.0 Credit
Credit type: Applied/Fine Arts

The course provides the opportunity for students to thoroughly investigate the subjects taught in Theatre Arts I. Areas of concentration will be theatre history, literature, acting and play production. Performance will be a major component of this course.

Modern Expression LA141

Prerequisite: None
Grades: 09
(Semester course) 0.5 Credit
Credit type: Elective

This one-semester course will focus on issues and topics relevant to modern life. Students will be asked to question the way they experience the world around them through text, film, art, and so forth. Through personal, analytical, and argumentative discussion and writing, students will increase their ability to think and write critically about the society around them.

Theater Arts III LA329,330

Prerequisite: Theater Arts II
Grades: 11-12
(Year-long course) 1.0 Credit
Credit type: Applied/Fine Arts

This course will begin to prepare the more serious theatre student with advanced concepts in performance and production. Also included will be an intro to playwriting, criticism, and auditioning. Students will explore forms of creative expression, performance styles, methods of acting, and artistic styles.

Theater Arts IV: Direct/Mgmt. LA429,430

Prerequisite: Theater Arts III
Grades: 12
(Year-long course) 1.0 Credit
Credit type: Applied/Fine Arts

In addition to intensive work in directing, design, and criticism, students in this course will be expected to make a significant contribution to the leadership of the Drama Department and will apply advanced theory to performance or technical work.

Mathematics

AP Computer Science Principles

TEC551, 552

Prerequisite: Algebra I

Grades: 10-12

This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning and computational content, develops computational thinking skills, and engages students in the creative aspects of the field. This course is high school elective credit, but can be math credit if the student has taken Algebra 1, Geometry, and Algebra 2. There is an opportunity to take the Advanced Placement exam in May and earn college credit with a passing score.

Mathematics Pathway of Study: Need 3.0 Credits for Graduation

9th Grade: →

Algebra I s1 or
Geometry s1

Algebra I s2 or
Geometry s2

10th Grade: →

Geometry s1 or
Algebra II s1

Geometry s2 or
Algebra II s2

11th Grade: →

Intro to Statistics or
Algebra II s1 or
Pre-Calculus s1

Intro to Trigonometry or
Algebra II s2 or
Pre-Calculus s2

12th Grade: →

Intro to Statistics or
Pre-Calculus s1 or
AP Calculus s1 or
AP Statistics s1

Intro to Trigonometry or
Pre-Calculus s2 or
AP Calculus s2 or
AP Statistics s2

Algebra I

NCAA MTH111,112



Grades: 9-12

(Year-long course) 1.0 Credit

Credit type: Algebra I s1 & s2

Algebra is the foundation of higher mathematics. Students will explore functional relationships, use algebraic systems and properties, represent patterns of change, and apply equations and inequalities to solve problems. Special emphasis is placed on application of skills and concepts through problem solving.

Geometry

NCAA MTH211,212

Grades: 9-12

(Year-long course) 1.0 Credit

Credit type: Math

Geometry is the study of shape. Students will develop deductive reasoning skills as they consider properties of and relationships among shapes, location of shapes, transformation of shapes, and special shapes such as circles and triangles. Technology is used to enhance geometric experimentation and situations.

Algebra II

NCAA MTH311,312

Grades: 9-12

(Year-long course) 1.0 Credit

Credit type: Math

This course extends basic algebraic skills developed in Algebra I. Students study complex numbers, explore sequences and series, work with logarithmic functions, exponential functions, and investigate trigonometric functions.

Introduction to Statistics

MTH321

Prerequisite: Algebra I and Geometry

Grades: 11-12

(Semester course) 0.5 Credit

Credit type: Math

Introduction to Statistics is a one-semester class. Pre-requisites are 2-2.5 years of prior math including algebra 1 and geometry. Topics of study include but are not limited to methods of data collections, various means of organizing and describing data, interpreting charts and graphs, and probability. Students will be using real-life data as part of their learning. Students are expected to work outside of class gathering data for in-class projects and will be expected to read articles during class as needed.

Introduction to Trigonometry

MTH413

Prerequisite: Algebra I & Geometry

Grades: 11-12

Semester course) 0.5 Credit

Credit type: Math

Introduction to Trigonometry is a one-semester class. The students will be expected to recognize patterns and develop and evaluate plausible solutions to real world situations. Topics include: the unit circle, trigonometric functions (definitions, graphs and inverses), right triangles, oblique triangles, trigonometric identities, trigonometric equations, the trigonometric form of complex numbers, two-dimensional vectors, polar coordinates, and parametric equations.

Pre-Calculus

NCAA MTH401,402

Prerequisite: C or higher in Algebra II

Grades: 9-12

(Year-long course) 1.0 Credit

Credit type: Math

Pre-Calculus is the post-algebra class to bridge students to Calculus topics. Students explore complex numbers, logarithmic functions, trigonometry, combinatorics, polar coordinates, and beginning calculus concepts.

AP Statistics

NCAA MTH551,552

Prerequisite: C or higher in Algebra II

Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Math

The AP statistics course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Students will plan and conduct a study, explore random phenomena using probability and simulation, estimate population parameters and test hypotheses.

AP Calculus AB

NCAA MTH501,502

Prerequisite: C or higher in Pre-Calculus

Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Math

The AP Calculus course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Course study includes properties of functions, limits, differential calculus, and integral calculus. Use of the graphing calculator is an integral part of this course and its use is required on the advanced placement test.

Music

<p><u>Band</u> MUS103,102</p> <p><i>Prerequisite: Middle School Band</i> <i>Grades: 09-12</i> <i>(Year-long course) 1.5 Credit</i> <i>Credit type: Applied/Fine Arts</i></p> <p>This course includes both Marching and Concert Band. The course begins approximately two weeks prior to the start of school with a required summer marching band camp. Marching band involves performances at all home varsity football games and a variety of other contests or parades each fall. Members in the band will study traditional concert band literature, and perform regularly throughout the winter and spring months. Students in may audition for Color Guard for the Marching Band Season (MUS113).</p>	<p><u>Show Choir</u> MUS217,218</p> <p><i>Prerequisite: Audition</i> <i>Grades: 9-12</i> <i>(Year-long course) 1.0 Credit</i> <i>Credit type: Applied/Fine Arts</i></p> <p>There are highly competitive groups that incorporate dancing and singing a variety of choral arrangements, including popular, jazz, and musical theater literature. Emphasis will be placed on vocal technique, style, and choreography appropriate to this repertoire. Both show choirs have numerous practices, performances, and competitions outside of school time. Students will be placed into Varsity or Junior Varsity Show Choir based on audition results.</p>
<p><u>Orchestra</u> MUS121,122</p> <p><i>Prerequisite: Middle School Orchestra</i> <i>Grades: 09-12</i> <i>(Year-long course) 1.0 Credit</i> <i>Credit type: Applied/Fine Arts</i></p> <p>This course is for all interested string players. Students participate in several concerts per year.</p>	<p><u>Chamber Choir</u> MUS315,316</p> <p><i>Prerequisite: Audition</i> <i>Grades: 10-12</i> <i>(Year-long course) 1.0 Credit</i> <i>Credit type: Applied/Fine Arts</i></p> <p>This is an advanced and select choir of mixed voices. Vocal technique and intonation, rehearsal skills, presentation, solfege, and rhythm skills will be developed through the rehearsal of challenging choral repertoire. As a performance class, choral literature will be rehearsed and performed at required concerts each semester.</p>
<p><u>Jazz Band</u> MUS107,108</p> <p><i>Prerequisite: Audition</i> <i>Grades: 09-12</i> <i>(Year-long course) 1.0 Credit</i> <i>Credit type: Applied/Fine Arts</i></p> <p>This course is offered to any student who plays a jazz instrument. Through performances, students will develop an understanding of basic jazz styles and improvisation techniques. Students will be placed into groups based on audition results. This group meets before school after marching band season.</p>	<p><u>Jazz Choir</u> MUS221,222</p> <p><i>Prerequisite: Audition</i> <i>Grades: 10-12</i> <i>(Year-long course) 1.0 Credits</i> <i>Credit type: Applied/Fine Arts</i></p> <p>Jazz Choir is an auditioned vocal jazz ensemble designed to challenge the student through instruction of vocal techniques and competitions, including various community performances. This course will include, but not be limited to: improvisational development, theory, special projects, history and literature, ear and key skills, basic keyboard tool development and performances of various styles of jazz.</p>
<p><u>9th Grade Choir</u> MUS139,140</p> <p><i>Prerequisite: None</i> <i>Grades: 09</i> <i>(Year-long course) 1.0 Credit</i> <i>Credit type: Applied/Fine Arts</i></p> <p>Students will discuss and sing repertoire from different genres and cultures, build basic vocal skills and musical literacy. As a performance class, choral literature will be rehearsed and performed at required concerts each semester.</p>	<p><u>Music Theory (Introduction)</u> MUS153</p> <p><i>Prerequisite: None</i> <i>Grades: 10-12</i> <i>(Semester course) 0.5 Credits</i> <i>Credit type: Applied/Fine Arts</i></p> <p>Students will study traditional music theory, including scales, chords, intervals, transposition, and beginning part-writing.</p>
<p><u>Concert Choir</u> MUS139,140</p> <p><i>Prerequisite: None</i> <i>Grades: 10-12</i> <i>(Year-long course) 1.0 Credit</i> <i>Credit type: Applied/Fine Arts</i></p> <p>This is an intermediate choir of mixed voices. Vocal technique and intonation, rehearsal skills, presentation, solfege, and rhythm skills will be developed through the rehearsal of choral repertoire. As a performance class, choral literature will be rehearsed and performed at required concerts each semester.</p>	<p><u>AP Music Theory</u> MUS501,502</p> <p><i>Prerequisite: None</i> <i>Grades: 11-12</i> <i>(Year-long course) 1.0 Credits</i> <i>Credit type: Applied/Fine Arts</i></p> <p>Advanced Placement Music Theory is a college-level study of the theory and ear training of music. It is geared toward the Advanced Placement Music Theory tests, which is strong on aural (listening) skills as well as written skills. Students will learn to identify scales, intervals, chord progressions and modulations by sound and sight. Students will sing melodies on sight and improve students' rhythm reading. Students will learn how to write music from various forms of shorthand and analyze music. Students will learn chords, cadences and forms. Students will decode music and decode how and why music is written the way it is.</p>
<p><u>Treble Choir</u> MUS171,172</p> <p><i>Prerequisite: None</i> <i>Grades: 11-12</i> <i>(Year-long course) 1.0 Credit</i> <i>Credit type: Applied/Fine Arts</i></p> <p>This is an intermediate choir of treble voices. Vocal technique and intonation, rehearsal skills, presentation, solfege, and rhythm skills will be developed through the rehearsal of choral repertoire. As a performance class, choral literature will be rehearsed and performed at required concerts each semester.</p>	

PHYSICAL EDUCATION

Team Games/Act & Sports

PHY105

Prerequisite: None

Grades: 9-12

(Semester course) 0.5 Credit

Credit type: Physical Education

Students will learn a variety of rules, skills, fundamentals and strategies in multiple team activities. Safety and sportsmanship will be emphasized. Activities will include but not limited to: Basketball, Soccer, Volleyball, Floor Hockey, Lacrosse, Ultimate Games, Non-traditional Games, Flag Football, Diamond Sports. District mandated fitness assessments will be administered in pre and post test form.

Fitness Walking

PHY115

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: Physical Education

This course is designed for students to improve cardiovascular fitness by walking. This course is completely activity based and suggested for those who are self-motivated. Various walking activities and assessments will be used throughout the class. Students will be expected to walk 2-3 miles per class period. This will allow students' the opportunity to participate in individual fitness activities that can be continued throughout one's lifetime. Activities include but not limited to: walking, heart rate monitoring, circuit training, treadmills, time laps/stairs, time mile, pedometers/activity monitors, walking bands. District mandated fitness assessments will be administered in pre and post test form.

Total Body Fitness & Conditioning

PHY109

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: Physical Education

This advanced course is designed to build upon proper lifting techniques, spotting methods, weight room safety, and work out routines. Activities will include but not limited to: Fitness Plan, Advanced strength exercises, SMART goals, student logs, basic nutrition, hydration, adjustment of pace, power building, Olympic lifts, fitness portfolio, analyzes the components skill-related fitness in reaction to life and career goals, and designs an appropriate fitness program to meet their goals. District mandated fitness assessments will be administered in pre and post-test form.

Aquatics

PHY241

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: Physical Education

Students will gain an awareness of the importance of water safety training and to provide general information on being safe in, on, and around water. Students will work on their coordination and refinement of strokes. Students will participate, assess, and improve levels of flexibility, cardiovascular fitness, muscular strength, endurance, and body composition. CPR has been mandated by the state and may be included in the curriculum. Activities can include but not limited to: pool rules, safety/expectations, water injuries, deck rescues/in water rescues, introduction to water skills, fundamental aquatic skills and stroke techniques.

Innovative Fitness

PHY131

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: Physical Education

Whether you are looking to improve your overall physique, gain strength, and flexibility, or live a healthier lifestyle, Innovative Fitness Class will aid you in your goals and expectations. This program provides opportunities for introductions to fitness skills and knowledge to help develop personal workout plans. Students must be willing to workout at an intense cardio level, break a sweat, and expect a body transformation. Activities include but are not limited to: Yoga, fitness technology, aerobics, bosu-trainers, CrossFit, creative dance, fitness assessment, jump roping, kick boxing, medicine balls, and weight resistance.



Contract PE

PHY901

Prerequisite: counselor/administrator approval based on district criteria

Grades: 9-12

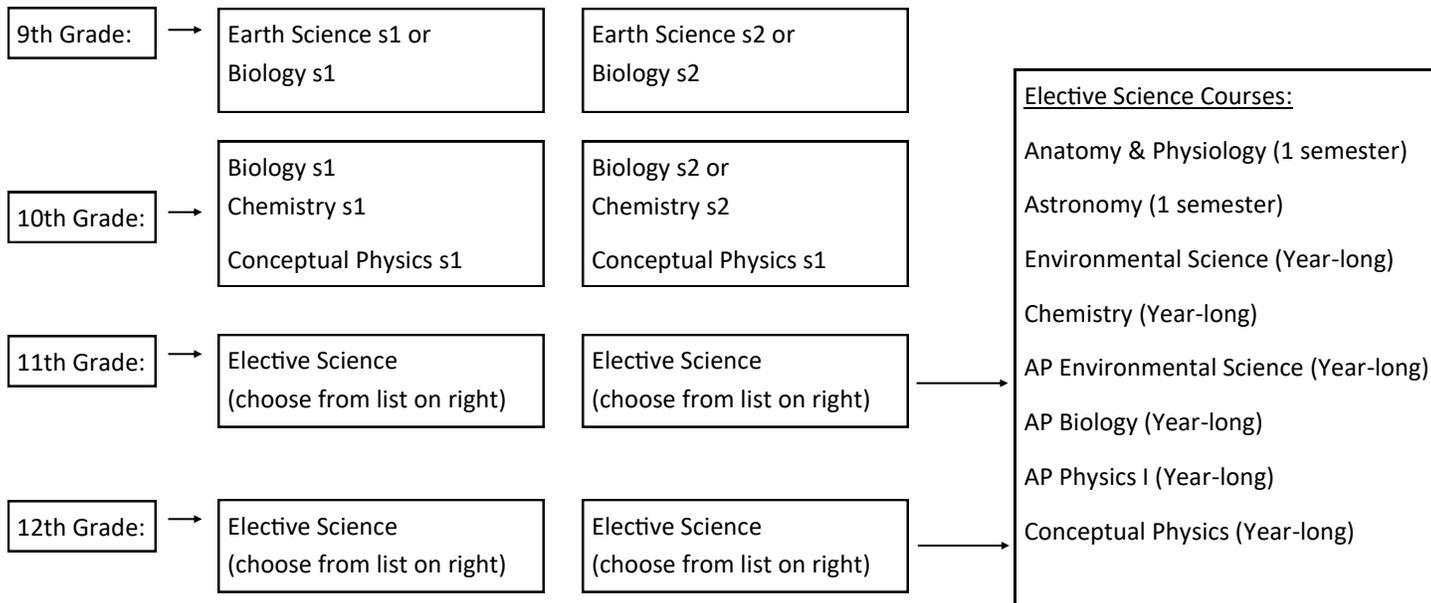
(Semester course) 0.5 Credit

Credit type: Physical Education

Contract PE is only for those students who are carrying a full schedule of required academic classes in order to meet minimum graduation requirements. Please see school counselor and PE department chair for further details, qualifications, and acceptable athletic programs in which the student may participate. Students will log physical activity and utilize the goal setting feature through the online database daily fit log, to motivate and set challenging and realistic goals. If approved for Contract PE, the student must make contact with the course instructor within the first week of the semester, either before or after school, to receive necessary course information.

Science

Science Pathway of Study: Need 3.0 Credits for Graduation



Conceptual Physics

NCAA SCI205,206

Prerequisite: None

Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Science

This course examines physics concepts without emphasizing high level mathematics. Basic Algebra skills are used to increase students' understanding of these concepts. Designed to make physics available to a wider audience, this course will provide students with an intellectual foundation for the study of biology and chemistry later in their high school education. Concepts such as straight-line motion, forces, energy and mechanical waves will be studied. This course will help to prepare a student to take Physics during his/her senior year, and should not be viewed as a substitute for Physics.

Earth Science

NCAA SCI207,208

Prerequisite: None

Grades: 09

(Year-long course) 1.0 Credit

Credit type: Science

This interdisciplinary course, consisting of a study of the earth and space, is an integral part of the science sequence. Topics of study include geology, space and astronomy, meteorology and oceanography. Laboratory investigations, which involve students in the inquiry processes of science, are incorporated into the course.

Biology

NCAA SCI203,204

Prerequisite: None

Grades: 9-12

(Year-long course) 1.0 Credit

Credit type: Science

Biology is the study of life. This lab-based course provides a survey of life science topics with a special focus on science processes and inquiry, the cell, the molecular basis of heredity, evolution, interdependence of organisms, living systems, human body, and behavior of organisms. Integration of these topics allows students to practice scientific thinking skills and apply them to in-class investigations.

Environmental Science

NCAA SCI201,202

Prerequisite: Biology

Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Science

Environmental Science is a course designed to explore underlying causes and effects of earth's natural and man-made environmental problems. The interrelationships between all living things and the interactions between living things and their non-living environment will be the framework for this study of the earth and its environment. This course combines principles of biology and earth science, and would be appealing to students interested in either of these disciplines. There are many different opinions regarding the causes and effects of environmental problems. Therefore, students will be expected to practice and display a range of problem solving and critical thinking skills to examine scientific evidence and propose and conduct investigations.

Chemistry

NCAA SCI301,302

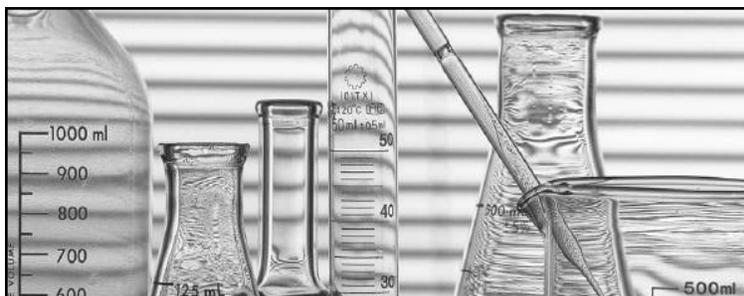
Prerequisite: Algebra I

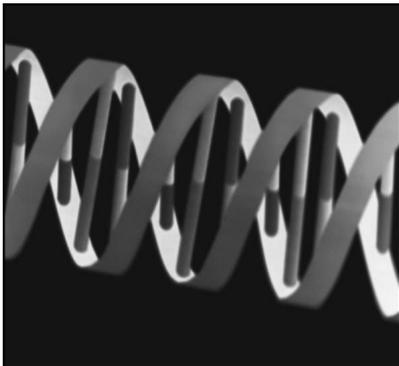
Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Science

The nature of matter and its relationship to chemical changes is emphasized in this course. Matter is examined through a study of elements, atoms and molecules, the periodic table, chemical behavior, and energy changes. Laboratory investigations are used extensively to enable students to discover and reinforce these concepts while challenging students to use good scientific thinking and reasoning skills.





Anatomy & Physiology

Prerequisite: Biology

Grades: 11-12

(Semester course) 0.5 Credit

Credit type: Science



NCAA SCI309

Anatomy & Physiology is a one semester survey course that covers the structure and function of the human body from the cellular level to organ systems. The organ systems studied are the skin and integumentary system, the skeletal and muscular systems, the nervous system, and the senses, the endocrine system, blood and the cardiovascular system, the lymphatic system and immunity, the respiratory system, the urinary system, the digestive system including nutrition, and the reproductive system. Other topics included in the course are: the body's balance of water; electrolytes, acids, and bases; and an introduction to human growth and development.

Astronomy

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: Science

SCI311

A one-semester course devoted to the study of astronomy. Units of study will include: objects that can be observed in the sky with the unaided eye such as the sun, planets, and stars; equipment that is used to further our knowledge of the universe; the relation between the earth and the other objects in the sky; the properties and lives of stars; the origins of our universe and solar system.

AP Biology

Prerequisite: Biology

Co-requisite: Chemistry

Grades: 11-12

(Year-long course) 1.0 Credit

Credit type: Science

NCAA SCI507,508

This course is the equivalent of an introductory college biology course. It is an intensive study emphasizing the molecular biology of the cell, genetics and evolution, organisms and populations. Laboratory activities challenge students' abilities to understand problems, develop and implement experimental designs, manipulate data, and think analytically. Laboratory work is extensive. Completion of the AP exam is an expectation for all AP courses.

AP Environmental Science

Prerequisite: Biology

Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Science

NCAA SCI501,502

AP Environmental Science is a one-year high school course, equivalent to a one-semester college course stressing scientific principles and analysis. The goal of the course is to provide students with scientific principles, concepts and methodologies to understand the interrelationship of the natural world; to identify and analyze natural and man-made environmental problems; to evaluate the relative risk associated with these problems; and to examine alternative solutions for resolving and preventing them. There are strong lab and field investigations, allowing students to learn about the environment through firsthand observation. Field experiences may be arranged outside of school hours. Completion of the AP exam is an expectation for all AP courses.

AP Physics I

Prerequisite: Algebra II

Grades: 11-12

(Year-long course) 1.0 Credit

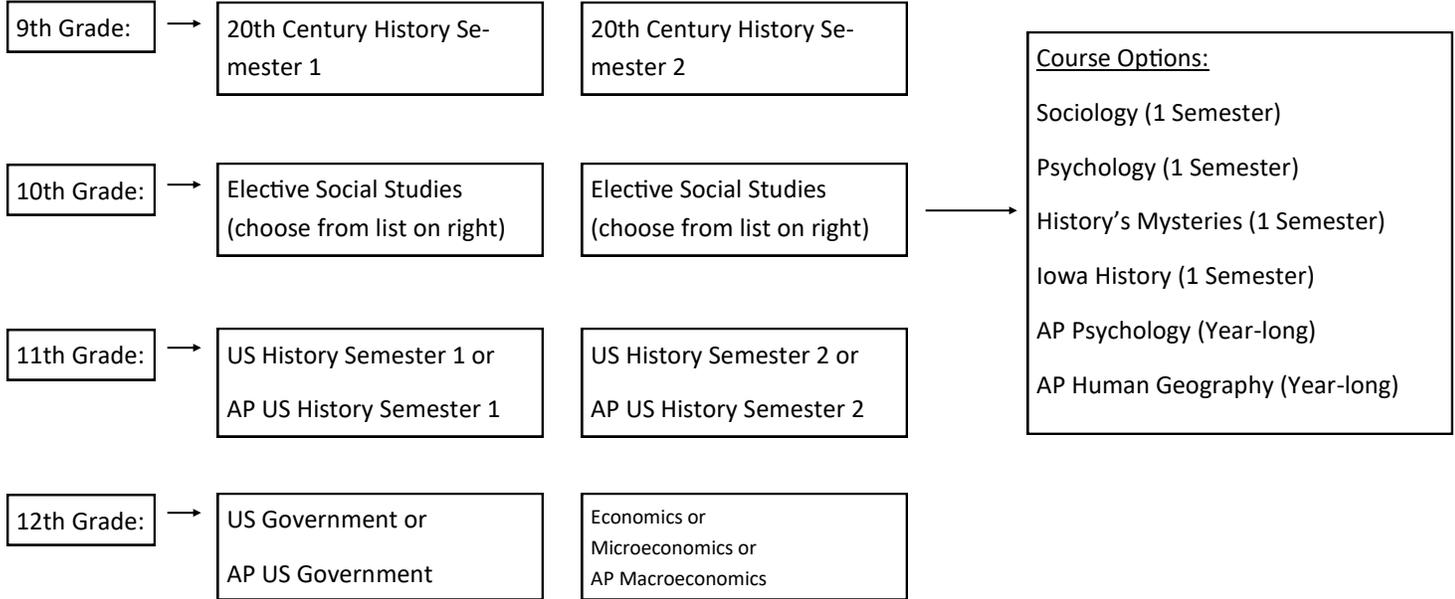
Credit type: Science

NCAA SCI525,526

This course is the equivalent of an introductory college physics course and includes topics in both classical and modern physics, emphasizing the mathematical treatment of physical events. The course covers topics such as kinematics, thermodynamics, wave motion, magnetism, electricity, optics, and modern physics. Lab experience is extensive. Students interested in pursuing a major in science or engineering in college should take this course in order to be fully prepared for college physics. Lab experience is extensive. Concurrent enrollment in Pre-Calculus is recommended, but not REQUIRED. Completion of the AP exam is an expectation for all AP courses.

Social Science

Social Science Pathway of Study: Need 3.0 Credits for Graduation (2.0 History, 0.5 Government, 0.5 Economics)



20th Century Contemporary History

NCAA SOC111,112



Prerequisite: None
Grades: 09
(Year-long course) 1.0 Credit
Credit type: History

This unique 20th Century History course is a change not only in what we teach, but in how we teach history. This course is a focused study of the 20th Century for all ninth-graders. 20th Century History focuses on key issues, events and people of the 20th Century and helps students build the connections into between past events and modern society. In no way will this course simply be a chronological march through time, but instead an in-depth look at historical themes from a global perspective. The 20th Century History course provides students with an opportunity to develop skills such as, but not limited to, interpreting primary sources, developing academic vocabulary related to topics and eras studied, making connections between history and geography, establishing an historical context for topics, people and events studied by organizing information gathered from secondary sources, connecting historical topics, people and events to the present day, and extending their learning through additional resources provided by instructor.

AP United States History

NCAA SOC501,502

Prerequisite: None
Grades: 11-12
(Year-long course) 1.0 Credit
Credit type: US History s1 & s2

The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. The following themes are covered in United States History: American Diversity and Identity, Culture, Demographic Changes, Economic Transformations, Environment, Globalization, Politics & Citizenship, Reform, Religion, Slavery & its Legacies, and War & Diplomacy. Completion of the AP exam is an expectation for all AP courses

United States History

NCAA SOC201,202



Prerequisite: None
Grades: 11-12
(Year-long course) 1.0 Credit
Credit type: US History s1 & s2

The United States History course provides students with the analytical skills and factual knowledge to deal critically with the problems and materials in our nation's history. Instructional units invite students to travel from the events leading to the Revolutionary War through the present day. Students learn to assess historical materials – their relevance to a given problem, reliability, and importance – and to weigh the evidence and interpretations presented in historical scholarship. Students will also develop the skills to present reasons and evidence clearly and persuasively in writing.

Economics

NCAA SOC403



Prerequisite: None
Grades: 12
(Semester course) 0.5 Credit
Credit type: Economics

The study of economics is a study of choices, a matter of decision-making. This course provides students with an opportunity to develop sound decision-making procedures, based on his/her values, and to evaluate alternative solutions to economic problems. Economics will help students understand how our economy works and how economic incentives influence consumers, business owners, investors, and government. Many of the important issues of our country and the world – recession, inflation, urban and ecological decline and decay, racial discrimination and poverty – have economic roots. By developing an awareness and perception of economics as it is interwoven in other areas of existence, students gain insight and understanding of business, government and themselves.

United States Government

NCAA SOC405



Prerequisite: None

Grades: 12

(Semester course) 0.5 Credit

Credit type: Government

The ultimate goal of this one semester course is active, responsible citizenship. The course provides students with multiple opportunities to develop an analytical perspective on government and politics in the United States, to develop civic commitment and capacity, and to build a well-informed, thoughtful response to the course driving question: What is the proper role of government in a democratic society? This question will be used iteratively throughout the course. Students return to it frequently, revising and deepening their understanding and responses in light of the concepts they are learning such as the foundation of U.S. government, political beliefs/behaviors, elections and voting, and policymaking institutions.

AP United States Government

NCAA SOC507,508

Prerequisite: 2.0 Credits of History

Grades: 12

(Year-long course) 1.0 Credit

Credit type: Elective (1st semester) and Government (2nd semester)

In the Year-long AP U.S. Government and Politics course, students move together through five project cycles that address the six AP topics specified by the College Board for success on the Advanced Placement exam. The course is designed using the problem-based learning approach and developed with the support of the George Lucas Educational Foundation and the University of Washington, Seattle. Student-centered learning is at the heart of this course that has students participating in five project cycles: Founders' Intent, Election 2016, Government in Action, 115th Congress, and Supreme Court of the United States. Students in AP US Government and Politics will know important facts, concepts, and theories pertaining to U.S. government and politics. Completion of the AP exam is an expectation for all AP courses

AP Macroeconomics

NCAA SOC511



Prerequisite: 2.0 Credits of history

Grades: 12

(Semester course) 0.5 Credit

Credit type: Economics

The study of economics is a study of choices, a matter of decision-making. This course provides students with an opportunity to examine how government makes economic decisions and to evaluate solutions to economic problems. AP Macroeconomics will help students understand how our economy works and how economic incentives influence individuals, businesses, and government. Many of the important issues of our country and the world – recession, inflation, urban and ecological decline and decay, racial discrimination and poverty – have economic roots. Completion of the AP exam is an expectation for all AP courses

Psychology

NCAA SOC205

Prerequisite: 1.0 credits of history

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: Elective

This course is designed to provide students with a basic understanding of human behavior and social relationships. The purpose is to create an awareness of the uniqueness of the individual and help students apply psychological principles to the solution of personal problems. Psychology will help students identify personal needs, values, and goals to assist them as they make career choices and family decisions. This course will also provide students with an understanding of the learning process and an appreciation of psychology as a field of knowledge based on scientific methods of research.

Sociology

NCAA SOC209

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: Elective

This course is designed to provide students with a basic understanding of the society in which they live by analyzing and evaluating the function of major social institutions, the effects of social change, and the origin and impact of prejudice, discrimination, stereotyping, and social stratification. This course will help students develop a broad understanding of culture and the ability to think objectively as they seek solutions to current social problems.

History's Mysteries

SOC121

Prerequisite: None

Grades: 11-12

(Semester course) 0.5 Credit

Credit type: History

The purpose of History's Mysteries is to provide a strong foundation in world history. This course will develop a greater understanding of how different groups of people, including nomadic and settled, dealt with the challenges they faced. The course will focus on the political, economic, religious, social and cultural institutions that formed as a result of these challenges. An addition purpose of the course is to develop the skills of studying, document analysis, discussion, critical thinking and writing.

Iowa History

SOC211

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Credit type: History

Iowa History is a semester elective in Social Studies in which students build historical thinking skills and think critically about issues in Iowa – both past and present. Iowa History examines the history, politics, economics, society, and cultures of our state in the United States. Students will learn about our geography and early history, political, social, and economic change over time in Iowa, and issues in education, state government, business, and agriculture. There will be curriculum connections to our local and state community through guest speakers and field experiences.

AP Human Geography

NCAA SOC519,520

Prerequisite: 20th Century Contemporary History

Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Elective

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Completion of the AP exam is an expectation for all AP courses

AP Psychology

NCAA SOC513,514

Prerequisite: 2.0 credits of history

Grades: 11-12

(Year-long course) 1.0 Credit

Credit type: Elective

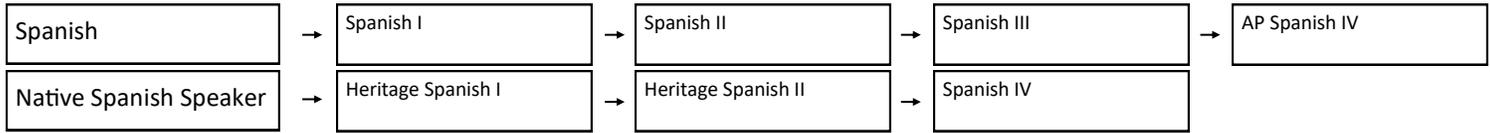
This year-long college-level course covers in depth all topics in introductory psychology. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the facts, principles, and phenomena associated with each of the major subfields within psychology.



World Language



Pathways of Study:



Spanish I

NCAA WL111,112

Prerequisite: None

Grades: 09-12

(Year-long course) 1.0 Credit

Credit type: Elective

Students in the first year of Spanish are introduced to the culture and geography of the Spanish-speaking world. Much effort is spent on comprehending and speaking Spanish. Proof of comprehension is based on ability to say and/or write what is required. Correct usage is taught orally through repetition, pattern drills, and questions. Corresponding written exercises emphasize correct usage.

Spanish II

NCAA WL211,212

Prerequisite: Spanish I

Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Elective

This course continues the same basic format as Spanish I; however, grammatical concepts and vocabulary become more complex and numerous. In Spanish II students become familiar with approximately 700 vocabulary words consisting of the following themes: food, airport vocabulary, body parts, clothing, store vocabulary, items in a school, items in the home, etc. Grammar includes the present tense, two forms of the past tense, and the near future tense.

Spanish III

NCAA WL311,312

Prerequisite: Spanish II

Grades: 11-12

(Year-long course) 1.0 Credit

Credit type: Elective

Spanish III reinforces and extends previously learned skills. Activities will provide a review and expansion of grammar usage, listening, speaking, reading, writing, and cultural awareness. Communicative skills are strengthened through practice and applications.

AP Spanish IV

NCAA WL515,516

Prerequisite: Spanish III

Grades: 11-12

(Year-long course) 1.0 Credit

Credit type: Elective

AP Spanish presents an in-depth review of grammatical structures. Communicative skills are expanded to include analysis, synthesis, and elaborate opinions. Appreciation of, awareness of, and respect for Hispanic cultures are expanded through multiple genres. Self-motivation is necessary as this course is college preparatory and challenging. The course prepares students to demonstrate their level of Spanish proficiency across three communication modes: Interpersonal, Interpretive, and Presentational. Communicative skills are expanded to include analysis, synthesis and elaborate opinions. Appreciation of, awareness of, and respect for Hispanic cultures are expanded through multiple genres. Intrinsic motivation is necessary as this course is college preparatory and challenging

Native Spanish Speakers:

Heritage Spanish I

NCAA WL213,214

Prerequisite: None (Native Spanish Speaker)

Grades: 9-12

(Year-long course) 1.0 Credit

Credit type: Elective

This course is intended for native speakers of Spanish. The focus is to introduce students to grammatical structures of their first language with an emphasis on spelling, accent use, vocabulary and written Spanish versus spoken Spanish. Cultural topics of the Spanish-speaking world will be integrated via reading, writing, listening and speaking activities.

Heritage Spanish II

NCAA WL317,318

Prerequisite: Heritage Spanish I

Grades: 10-12

(Year-long course) 1.0 Credit

Credit type: Elective

Spanish for Heritage Learners II is a course tailored to meet the needs of students who have had exposure to Spanish in the home/community and who need to advance their Spanish skills in different ways than students who are learning Spanish as a second language. The Spanish for Heritage Speakers class will provide Spanish-speaking students the opportunity to take their unique prior knowledge of Spanish and further explore fluency and bilingualism. The class will explore big ideas/issues related to Spanish speaking students by reading, writing, listening and speaking the Spanish language. Students will also be encouraged to feel pride in their abilities to speak Spanish and will explore ways they can use their bilingual skills in the future.

Other World Language Opportunities:

World language courses are available at Central Academy in the following languages. See your counselor if you are interested in taking any of these courses.

- Arabic
- Chinese
- French
- German
- Italian
- Japanese

Miscellaneous

Leadership

MIS315,316

Prerequisite: Election to Student Council or Senior Board
Grades: 09-12
(Year-long course) 1.0 Credit
Credit type: Elective

Leadership is a hands on course that provides students experience in leadership in a variety of settings. The course will consist of two groups: student council and the senior board. The student council will be made up of students who are elected in the spring for the upcoming school year. Four officers from each class will make up the 16 member student council group. The senior board will consist of 6 members (President, VP Prom, VP Banquet, Prom Rep, Banquet Rep, and Secretary). These students will be elected in the spring for the upcoming school year. In addition to the planning and organization of school activities, topics in the class include how to cope with differences in communication styles and strategies for improving our school. Traditional academic lessons are typically held at the beginning of every other class. All classes start with a review of past agenda and the day's agenda with an explanation of assignments. At the end of the course, students put together a portfolio of their work which includes artifacts and detailed explanations.

Ambassadors

MIS327,328

Prerequisite: Application
Grades: 10-12
(Semester or Year-long course) 0.5 Credit per semester
Credit type: Elective

Ambassadors is a service learning opportunity. Students participate in volunteer projects at Lincoln High School and in the community. An application will need to be completed to finish enrollment into this course. This application will be available during the course selection process.

iJAG I-II

MIS195,196 (I), MIS295,296 (II)

Prerequisite: None
Grades: 11-12
(Year-long course) 1.0 Credit
Credit type: Elective



iJAG is Iowa's premiere graduation success program. iJAG teaches 88 core competencies that will help students explore career opportunities, and succeed in the workplace. Topics of study include: goal setting, resumes, cover letter, career exploration, college selection, time management, personal finance, job applications, job interview skills and teambuilding activities. iJAG also has a student club called the iJAG Career Association which participates in service learning activities and state conferences in the spring and fall.

FAST Student Tutor

MIS259,260

Prerequisite: AVID II, concurrent enrollment in Dual Credit or AP course
Grades: 11-12
(Year-long course) .25 credits/semester
Credit type: Elective

AVID tutors will work within the AVID elective class as facilitators for student study groups. Tutors will be responsible for note-taking, group facilitation and questioning during the tutorial session. Student will be trained by district staff in AVID methodologies and tutorial strategies, and should have a solid foundation in science, math and writing. One 1/2 day training session will be required of all student tutors.

FAST 9 (College & Career Readiness)

MIS161,162

Prerequisite: application/program acceptance
Grades: 09
(Year-long course) 1.0 Credit
Credit type: Elective

FAST (Future Academic Success Training, formerly AVID) is a program that helps students prepare for college through a set of skill-building strategies which enhance a student's learning experience. Students must be self-motivated and have the expectation that postsecondary learning is in their future. This level provides the foundation of the FAST program through: binder and time organization techniques, tutorials, the Cornell way of taking notes, beginning college and career exploration, and on-site college visits.

FAST 10 (College & Career Readiness)

MIS261,262

Prerequisite: FAST 9 or application/program acceptance
Grades: 10
(Year-long course) 1.0 Credit
Credit type: Elective

FAST (Future Academic Success Training, formerly AVID) is a program that helps students prepare for college through a set of skill-building strategies which enhance a student's learning experience. Students must be self-motivated and have the expectation that postsecondary learning is in their future. This level continues to expand the foundational FAST strategies through: binder and time organization techniques, tutorials, the Cornell way of taking notes, more intensive college and career exploration, taking the PSAT, an AP-end-of-course test, and on-site college visits.

FAST 11 (College & Career Readiness)

MIS361,362

Prerequisite: AVID 10 or application/program acceptance
Grades: 11
(Year-long course) 1.0 Credit
Credit type: Elective

FAST (Future Academic Success Training, formerly AVID) , is a program that helps students prepare for college through a set of skill-building strategies which enhance a student's learning experience. Students must be self-motivated and have the expectation that postsecondary learning is in their future. At this level, students are expected to show a growing proficiency in the foundational AVID strategies. Post-secondary planning becomes more intensive with students taking the PSAT, the ACT, and multiple AP end-of-course tests. Students will participate in on-site college visits, and host visits from college and other postsecondary career representatives during the elective class.

FAST 12

MIS461,462

Prerequisite: AVID 11 or application/program acceptance
Grades: 12
(Year-long course) 1.0 Credit
Credit type: Elective

FAST (Future Academic Success Training, formerly AVID) , is a program that helps students prepare for college through a set of skill-building strategies which enhance a student's learning experience. Students must be self-motivated and have the expectation that postsecondary learning is in their future. At this level, students are expected to show a proficiency in the foundational AVID strategies. Postsecondary activities include: applying to college, scholarships, the senior portfolio, and multiple AP end-of-course tests are all the main focuses for this level. Students will participate in on-site college visits (often applying while on campus), and host visits from college and other postsecondary career representatives during the elective class.

ELL COURSES

Eng Lang Development I MIS921,922
(Year-long course) 1.0 Credit
 This is a beginning course for newly arrived students who have not previously studied English or who have very Basic English skills. Students in this course are primarily Beginning Level students. This course includes vocabulary and language structures with an emphasis on communicative competence. This course receives elective credit and enrollment is concurrent with ELA Foundations I.

Eng Lang Development II MIS933,934
(Year-long course) 1.0 Credit
 This course extends the basic skills of ELD I in listening comprehension, speaking/oral communications, reading and writing. Students in this course are primarily Beginning Level students. This is a course for students who have completed ELD I coursework, have studied English approximately one year before entering U.S. schools, and /or who test at this level of proficiency. This course receives elective credit. Enrollment is concurrent in ELA Foundations II.

Eng Lang Development III LA923,924
(Year-long course) 1.0 Credit
 This course continues to extend the basic skill of ELD II in listening comprehension, speaking/oral communication, reading and writing. Students in this course are primarily Early Intermediate students. This course is for students who have successfully completed ELD 2 coursework, have studied English approximately two years before entering U.S. schools, and/or who test at this level. This course receives English credit. This course can be concurrent enrollment with ELL English I, or English I.

Eng Lang Development IV LA925,926
(Year-long course) 1.0 Credit
 The focus of this course is on the enhancement of students' listening, speaking, reading, and writing skills in English through the study of both narrative and informational written and oral text. Students in this course are primarily Intermediate Level students. This course receives English credit. There is a concurrent enrollment in an English class

Eng Lang Development V LA927,928
(Year-long course) 1.0 Credit
 In this course students are independently applying strategies to expand their academic reading, writing, listening and speaking skills. Students in this course are primarily Early Advanced students. This course receives English credit. This is a concurrent enrollment in an English class.

ELA Foundations I LA911,912
(Year-long course) 1.0 Credit
 This course focuses on integrating reading skills, writing skills, and vocabulary building from study of narrative and informational oral or written text. This course includes teaching of foundational reading and writing skills. Students in this course are primarily Beginning Level students. This course receives English credit. Enrollment is concurrent with ELD I.

ELA Foundations II LA913,914
(Year-long course) 1.0 Credit
 This course focuses on consolidating many of the beginning skills through extended practice and instruction as students gain the new skills that are presented at this level. Instruction emphasizes interpersonal communication and academic skills. Students in this course are primarily Beginning Level students. This course receives English credit. This is concurrent enrollment in ELD II.

ELL Intensive Foundations MIS920
(Year-long course) 1.0 Credit
 This course is for beginning level students that audited semester one of ELA Foundations I or Eng Lang Development I course. Beginning level students that enroll second semester should also take this course. The focus of this course is to fill in the topics that were missed in the ELA Foundations I and Eng Lang Development I classes

ELL SCI Foundations MIS941,942
(Year-long course) 1.0 Credit
 The focus of this course is language development through the exploration of science concepts and skills. It will offer a balanced science experience by engaging students in the practice of science and help them develop their understanding of scientific phenomena and the natural world. This course is designed for newly arrived English Language Learners.

ELL English I LA929,930
(Year-long course) 1.0 Credit
 This is an ELL Sheltered English course. English I develops basic structures of reading and writing, using a variety of works from diverse authors to increase student interest, awareness, appreciation, and understanding of a variety of genre as well as opportunities to apply the writing process to promote communication through written expression. Students will come to understand that personal expression and the way we express ourselves is influenced by society and culture through literary analysis, reflective writing, persuasive writing and character analysis.

ELL English II LA931,932
(Year-long course) 1.0 Credit
 This is an ELL Sheltered English course. English II continues the development of the structures of communication with an emphasis on the language arts of speaking and listening. Through the communication of ideas in both writing and speaking, students will learn to use information responsibly, accurately, and ethically. Students will communicate through a variety of mediums, including technology, to recognize the role evaluation and response have on oral communication.

ELL Math Courses:
 ELL Math I: MTH921,922 ELL Math III: MTH925,926
 ELL Math II: MTH923,924 ELL Algebra I: MTH943,944

ELL Science Courses:
 ELL Science II: SCI941,942 ELL Biology: SCI925,926
 ELL Earth Science: SCI921,922 ELL Environmental Science: SCI927,928

ELL Social Studies Courses:
 ELL 20th Century History: SOC943,944 ELL Government: SOC935
 ELL US History: SOC931,932 ELL Economics: SOC937

ELL Band MIS103
(Year-long course) 1.0 Credit

Special Education Courses

SPED Core and Parallel Curriculum Classes:

The content of the following courses is aligned to the content of the general education classes of the same name. Modifications are made to the curriculum, environment and delivery of instruction. Placement in these courses is made by the consultant and individual case managers, with these students and their parents/guardians, to assure correct placement based upon needs documented in the IEP.

English I: LA1030, LA1040

English II: LA2050, LA2060

English III: LA3050, LA3060

English IV: LA4030, LA4040

Power English: LA1210, LA1220

20th Century History: SOC1110, SOC1120

US History : SOC2010, SOC2020

Government: SOC4050

Economics: SOC4030

Earth Science: SCI2070, SCI2080

Environmental Science: SCI2010, SCI2020

Biology: SCI2030, SCI2040

Integrated Math 9-12: MTH9513,9523

Algebra Transitions I: MTH9715,9725

Algebra Transitions II: MTH9735,9745

Algebra I 2-year (first year): MTH9075,9085

Algebra I 2-year (second year): MTH9095,9105

Geometry: MTH2110, MTH2120

Algebra/Geometry Foundations: MTH9185,9195

Power Algebra: MTH1210,1220

Lrng Tran Math: MIS9885,9925

Transitions Lrng Enhancement

MIS903,904

Prerequisite: Approval of the mental health support team

Grade: 09-12

(Year-long course) 1.0 Credit

Students who have met the requirements for support in the mental health classroom are eligible to take this course. This course provides an environment where students with mental health issues are given the instruction and support to acquire 21st century problem solving skills.

Career Transitions

MIS9075,9085

Prerequisite: Special Education student with an I.E.P.

Grade: 09-12

(Semester course) 0.5 Credit



A course designed for self-contained students in the areas of academics and/or behavior. This course will progress monitor success in the skill areas documented on the students IEP. Specially designed instruction will be provided.

Social Skills

MIS943,944

Prerequisite: Special Education student with an I.E.P.

Grade: 09-12

(Year-long course) 1.0 Credit



This course is a repeatable course that is highly recommended for students with a behavior goal on their IEP. This course is designed to teach social, problem-solving and coping skills.

Adult Living Transitions 1-4

MIS9555,9565,9575,9585

Prerequisite: Special Education student with an I.E.P.

Grade: 09-12

(Semester course) 0.5 Credit



This is a repeatable course. The major components of this special education class include: Consumer Awareness, Everyday Life Skills, Café operation, Social and Leisure Skills Exploration and Skills for Independent Living.

CENTRAL CAMPUS & CENTRAL ACADEMY

For more information, including course descriptions, please visit the Central Campus website: centralcampus.dmschools.org.

In order to request a course at Central Campus, students must complete the enrollment request form located on the Central Campus website (centralcampus.dmschools.org) under the "Enrollment" tab. For a request to be considered, students must meet the prerequisites for the program, complete the online request form, and enter the course on their Lincoln course plan. Students applying for only Central Academy and/or the World Language program do not need to complete the online request form (submitting the request on the Lincoln course request sheet is sufficient for the Central Academy and World Language program).

Central Academy

Central Academy Class	Request #	Requirements and Pre-Requisites	Grades
World Language: Arabic	PENDCA40	None	9-12
World Language: Chinese	PENDCA41	Proficiency on Iowa Assessment in all 3 test subjects	9-12
World Language: French	PENDCA42	None	9-12
World Language: German	PENDCA43	Proficiency on Iowa Assessment in all 3 test subjects	9-12
World Language: Italian	PENDCA44	Proficiency on Iowa Assessment in all 3 test subjects	9-12
World Language: Japanese	PENDCA45	Proficiency on Iowa Assessment in all 3 test subjects	9-12
Intro to Art History	PENDCA50	None	9-12
Intermediate Art History	PENDCA51	None	10-12
AP Art History	PENDCA52	None (Intro or Intermediate Art History recommended)	10-12
Beginning Throwing	PENDCA52	None (background in Art recommended)	10-12
AP World History	PENDCA33	None	10-12
AP European History	PENDCA38	None	10-12
Middle East & Islam History (College)	PENDCA36	None	9-12
Latin American History (College)	PENDCA37	None	9-12
AP Computer Science Principles	PENDCA53	Algebra I	9-12
AP Computer Science A	PENDCA54	Pre-Calculus	11-12

Central Campus

Central Campus Class	Request #	Requirements and Pre-Requisites	Grades
Agriculture and Environmental Sciences			
Animal Science & Horticulture	PENDCC2010	None	10-12
Applied Animal Science/Horticulture	PENDCC2015	Animal Science & Horticulture recommended	11-12
Global Animal Science	PENDCC2011	Animal Science & Horticulture recommended	11-12
Horticulture/Environmental Science	PENDCC2014	Animal Science & Horticulture recommended	11-12
Animal Science/Vet Careers	PENDCC2012	Animal Science & Horticulture recommended	11-12
Aquarium Science	PENDCC2025	None	10-12
Iowa Energy & Sustainability	Y1: PENDCC2001 Y2: PENDCC2002	None	9-12
Marine Biology	PENDCC2020	Biology	10-12
Building Technologies			
Intro to Skilled Trades	PENDCC2050	None	9-12
Applied Skilled Trades	PENDCC2051	None	9-12
Welding	Y1: PENDCC2070 Y2: PENDCC2071	Must complete year 1 to take year 2	11-12
Plumbing & Mechanical Systems	PENDCC2052	None (Skilled Trades course recommended)	10-12
Paint Application	Y1: PENDCC2053 Y2: PENDCC2054	None (Skilled Trades course recommended)	10-12
Electricity	PENDCC2056	None (Skilled Trades course recommended)	10-12
Carpentry	Y1: PENDCC2065 Y2: PENDCC2066 Y3: PENDCC2067	None (Skilled Trades course recommended) Must complete previous years to take years 2 or 3	10-12
Communications/Media			
Broadcasting & Film	Y1: PENDCC3083 Y2: PENDCC3084 Y3: PENDCC3085	Must complete previous years for year 2 or 3	10-12
Commercial Photography	Y1: PENDCC3080 Y2: PENDCC3081	Must complete year 1 to take in year 2	11-12

Central Campus Class	Request #	Requirements and Pre-Requisites	Grades
Graphic Communication	Y1: PENDCC3075 Y2: PENDCC3076 Y3: PENDCC3077	Must complete previous years to year 2 or 3	10-12
Education & Leadership			
Army JROTC	Y1: PENDCC3020 Y2: PENDCC3021 Y3: PENDCC3022 Y4: PENDCC3023 EB:PENDCC3024	Must complete previous years to year 2, 3, or 4 EB indicates Early Bird ROTC	9-12
Criminal Justice	PENDCC3010	None	11-12
Early Childhood Careers	Y1: PENDCC3004 Y2: PENDCC3005	Must pass criminal background check Must complete year 1 to take year 2	11-12
Sports Officiating –Fall	PENDCC3030	None	11-12
Sports Officiating—Spring	PENDCC3031	None	11-12
Urban Teacher Academy	Y1: PENDCC3000 Y2: PENDCC3001	Must complete year 1 to take year 2	11-12
Urban Leadership	Y1: PENDCC3015 Y2: PENDCC3016	Must complete year 1 to take year 2	9-12
Dream to Teach 1	PENDCC3034	None	9-12
Dream to Teach 2	PENDCC3035	Dream to Teach 1	9-12
Youth Voice for Equity	PENDCC3038	None	9-12
Engineering			
Computer Aided Drafting & Design	PENDCC4004	Previous PLTW or CAD course recommended	10-12
PLTW: Digital Engineering & Robotics	PENDCC4003	Algebra I	10-12
PLTW: Civil Engineering & Architecture	PENDCC4005	Previous PLTW or CAD course recommended	11-12
PLTW: Computer Integrated Manufacturing	PENDCC4007	Previous PLTW or CAD course recommended	10-12
PLTW Engineering Design & Development	PENDCC4006	Previous PLTW or CAD course recommended	12
Family & Consumer Sciences			
Culinary Arts & Restaurant Management	Y1: PENDCC3050 Y2: PENDCC3051 Y3: PENDCC3052	Must complete previous years to enroll in year 2 or 3	10-12
Intro to Fashion/Garment Construction	PENDCC3054	None	9-12
Fashion Design & Merchandising	Y1: PENDCC3055 Y2: PENDCC3056	Intro to Fashion or sewing course recommended	11-12
Health Sciences			
Nurse Aide—Basic	PENDCC3060	Must pass criminal background check	11-12
Nurse Aide—Advanced	PENDCC3062	Must pass criminal background check	11-12
Career Opportunities in Health (COH)	PENDCC3066	None	11-12
College Anatomy & Physiology	PENDCC3069	Biology; co-requisite of Chemistry	11-12
College Genetics & Microbiology	PENDCC3068	Biology; co-requisite of Chemistry	11-12
Technology & Systems Integration			
Cybersecurity	Y1: PENDCC3095 Y2: PENDCC3096 Y3: PENDCC3097	None	10-12
Intro to Robotics	PENDCC4002	None	9-12
Software Design & Gaming	PENDCC4001	None	10-12
Transportation			
Intro to Auto	PENDCC2030	None	10-12
Automotive Collision	Y1: PENDCC2031 Y2: PEDCC2032	Must complete year 1 to take year 2	11-12
Automotive Technology	Y1: PENDCC2033 Y2: PENDCC2034	Must complete year 1 to take year 2	11-12
Essentials of Flight	PENDCC2038	None	9-12
Dynamics of Flight	PENDCC2039	None	9-12
Pilot Training	PENDCC2040	None	10-12
Aviation	Y1: PENDCC2041 Y2: PENDCC2045 Y3: PENDCC2049	Must complete previous years to take Year 2 or 3	10-12