

LINCOLN HIGH SCHOOL

COURSE CATALOG

2016 - 2017



ABRAHAM LINCOLN HIGH SCHOOL IS A SAFE AND COLLABORATIVE COMMUNITY WHERE ALL ARE ACTIVELY ENGAGED IN PURPOSEFUL, CHALLENGING AND POSITIVE OPPORTUNITIES TO PREPARE STUDENTS FOR FUTURE SUCCESS.

Lincoln Fight Song

We are the dear old gang from L.H.S.

And we are pretty good, you must confess

We'll have you understand this is our team

We're going to win this game or know the reason why

We're going to fight, fight, fight, just watch us step

We're going to win this game and save our rep, save our rep

L.H.S. has lots of pep, lots of pep

Rah! Rah! Rah!

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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.

There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact the district's Equity Coordinator Patricia Lantz, General Counsel, 901 Walnut Street, Des Moines, IA 50309; phone: 515.242.7837; email: patria.lantz@dmps.k12.ia.us.

In addition, the District prohibits hostile work and learning environment harassment toward employees or students that are not allegations of discrimination. Complaints of hostile work or learning environment harassment may be filed with Amanda Easton, Human Resources Investigations Specialist, at 901 Walnut Street, Des Moines, Iowa 50309, (515) 242-7841.

The district is committed to maintaining a learning and working environment free of any form of sexual harassment toward personnel and students on school grounds, on school time, at a school-sponsored activity or in a school-related context. Complaints of sexual harassment filed against students and complaints of sexual harassment filed against employees or adults may be filed with Amanda Easton at 242-7841.

Graduation Requirements

Social Science	3.0 Credits
Includes 2.0 History (at least 1.0 credits US History), Government & Economics	
English	4.0 Credits
Mathematics	3.0 Credits
Includes Algebra I s1 and s2	
Science	3.0 Credits
Applied / Fine Arts	1.5 Credits
Physical Education*	1.0 Credits
Electives	7.5 Credits
TOTAL	23 credits

Under Iowa Law, beginning with the class of 2017, all students must complete coursework in Financial Literacy, Health Literacy, Technology Literacy, and Employability Skills. Please see the next page (page 5) for more information.

* 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 certification.



= Course required for graduation



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



= Course is NCAA approved

21st Century Skills Graduation Requirement

Beginning with the class of 2017, all students must complete coursework in Financial Literacy, Health Literacy, Technology Literacy, and Employability Skills. Below are the courses that meet each of these requirements. Students must complete at least one course from each category of skills.

Financial Literacy
Accounting 2
Accounting 4
Adult Living
Economics (Micro, Macro or regular)
Financial Math
General Business
Health and Financial Literacy
Micro Economics
Personal Financial Management

Health Literacy
Adult Living
Career Opportunities in Health CC
College Advanced Anatomy and Physiology CC
College Biotechnology CC
Culinary Arts CC
Health and Financial Literacy
Health Science Anatomy CC
Nurse Aide (75 hr, Advanced or Specialist) CC
Nutrition and Food Prep 1
Personal Development and Health

Technology Literacy
3D Architectural Design and Development
3D Mechanical Design and Development
AP Computer Science
Biology Workplace and Experience CC
Broadcasting and Film CC
College Advanced Anatomy and Physiology CC
College Biotechnology CC
Commercial Photography CC
Computer Aided Drafting and Design CC
Computer Applications 1
Computer Applications 2
Computer Technology and Networking CC
Desktop Publishing
Graphic Communications CC
Graphic Design Technology 2
Health and Financial Literacy
International Business
Introduction to Website
Personal Financial Management
PLTW: Civil Engineering and Architecture
PLTW: Digital Electronics
PLTW: Intro to Engineering Design
PLTW: Principles of Engineering
PowerPoint and Multimedia
Tech Seminar
Word Processing

Employability Skills
3D Architectural Design and Development
3D Mechanical Design and Development
Adult Living Skills
Animal Science & Horticulture CC
Aquarium Science CC
Automotive Collision Repair CC
Automotive Technology CC
Aviation Technology CC
Broadcasting and Film CC
Career Opportunities in Health CC
College Advanced Anatomy & Physiology CC
College Biotechnology CC
Commercial Photography CC
Computer Aided Drafting and Design CC
Computer Applications 1
Computer Technology and Networking/CISCO CC
Construction
Culinary Arts and Restaurant Management CC
Dining Room Assistant Program CC
Early Childhood Careers CC
Fashion Design and Merchandising CC
Fashion Runway
Graphic Communications CC
Graphic Design Fundamentals 1
Graphic Design Technology 2
Home Building CC
Introduction to Business
Iowa Energy and Sustainability Academy CC
JROTC CC
Marine Biology CC
Marketing Co-op
Marketing/Entrepreneurship
Metalworking Fundamentals 1
Metalworking Technology 2
Nurse Aide and Advanced Nurse Aide CC
Nurse Aide Specialist CC
Office Education Co-op
Painting and Drywall CC
Parenting: Conception—Toddler
PLTW: Civil Engineering and Architecture
PLTW: Digital Electronics
PLTW: Intro to Engineering Design
PLTW: Principles of Engineering
Power Fundamentals 1
Power Technology 2
Relationships
Teacher Academy CC
Welding CC
Woodworking Fundamentals 1
Woodworking Technology 2

Lincoln High School Course Plan (23 credits needed for graduation)

Student Name: _____

Student ID #: _____

REQUIRED COURSES FOR GRADUATION:

Mathematics (write in course name):

	Course Name	Grade Taken
Math s1	_____	_____
Math s2	_____	_____
Math s3	_____	_____
Math s4	_____	_____
Math s5	_____	_____
Math s6	_____	_____

English (write in course name):

	Course Name	Grade Taken
English 09 s1	_____	_____
English 09 s2	_____	_____
English 10 s1	_____	_____
English 10 s2	_____	_____
English 11 s1	_____	_____
English 11 s2	_____	_____
English 12 s1	_____	_____
English 12 s2	_____	_____

Social Studies (write in course name):

	Course Name	Grade Taken
History s1	_____	_____
History s2	_____	_____
US History s1	_____	_____
US History s2	_____	_____
Government	_____	_____
Economics	_____	_____

Science (write in course name):

	Course Name	Grade Taken
Science s1	_____	_____
Science s2	_____	_____
Science s3	_____	_____
Science s4	_____	_____
Science s5	_____	_____
Science s6	_____	_____

Physical Education (write in course name):

	Course Name	Grade Taken
9th Grade PE	_____	_____
10th Grade PE	_____	_____
11th Grade PE	_____	_____
12th Grade PE	_____	_____

Other Requirements:

Completed	
CPR Certification	_____
21st Cent Skills	_____

- Financial, Health, Employability, Technology

ELECTIVE COURSES—9.0 credits (or 18 semesters)

1.5 credits (or 3 semesters) of the 9.0 credits must be Fine/Applied Arts credits

	Course/Credit	Grade Taken	Fine Art		Course/Credit	Grade Taken	Fine Art
Elective 1	_____	_____	_____	Elective 10	_____	_____	_____
Elective 2	_____	_____	_____	Elective 11	_____	_____	_____
Elective 3	_____	_____	_____	Elective 12	_____	_____	_____
Elective 4	_____	_____	_____	Elective 13	_____	_____	_____
Elective 5	_____	_____	_____	Elective 14	_____	_____	_____
Elective 6	_____	_____	_____	Elective 15	_____	_____	_____
Elective 7	_____	_____	_____	Elective 16	_____	_____	_____
Elective 8	_____	_____	_____	Elective 17	_____	_____	_____
Elective 9	_____	_____	_____	Elective 18	_____	_____	_____

College Admission Requirements

High School Course Requirements

In addition to meeting the Regent Admission Index requirement, students must complete the minimum number of high school courses specified below for the institution to which they're applying.

Subject Area	Iowa State University	The University of Iowa	University of Northern Iowa	Optimum Recommendations for Success
English / Language Arts	Four years of English/ Language Arts emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.	Four years, with an emphasis on the analysis and interpretation of literature, composition, and speech.	Four years, including one year of composition; also may include one year of speech, communication, or journalism.	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. Extracurricular activities in debate, speech contest, newspaper, and yearbook will further develop essential competencies.
Math	Three years, including one year each of algebra, geometry, and advanced algebra.	Three years, including two years of algebra and one year of geometry, for admission to the College of Liberal Arts and Sciences. Four years, including two years of algebra, one year of geometry, and one year of higher mathematics (trigonometry, analysis, or calculus), for admission to the College of Engineering.	Three years, including the equivalent of algebra, geometry, and advanced algebra.	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.
Natural Science	Three years, including one year each from any two of the following: biology, chemistry, and physics.	Three years, including one year each from any two of the following: biology, chemistry, and physics for admission to the College of Liberal Arts and Sciences. Three years, including at least one year of chemistry and one year of physics, for admission to the College of Engineering.	Three years, including courses in general science, biology, chemistry, earth science, or physics; laboratory experience highly recommended.	Four years, one in each year of high school. To be really well prepared, take at least one year each of biology, chemistry, and physics. These can be taken in any order and may be taught productively in either a separate or an integrated fashion, depending on your school's offerings.
Social Science	Two years for admission to the Colleges of Agriculture, Business, Design, Human Sciences, and Engineering. Three years for admission to the College of Liberal Arts and Sciences.	Three years, with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences. Two years, with U.S. history and world history recommended, for admission to the College of Engineering.	Three years, including courses in anthropology, economics, geography, government, history, psychology, or sociology.	Three years are essential, but four is better. Take at least one year each of US and world history. Additional courses in anthropology, economics, political science, psychology, and sociology provide an important understanding of our political, social and economic institutions.

Foreign Language	Two years of a single foreign language for admission to the College of Liberal Arts and Sciences and the College of Engineering. Foreign language courses are not required for admission to the Colleges of Agriculture, Business, Design, or Human Sciences.	Two years of a single foreign language.	Foreign language courses are not required for admission. However, two years of a foreign language in high school with a C- or above in the last term will meet the university graduation requirement.	Four years of a single foreign language. By taking foreign language during all four years of high school, you'll go beyond the basic skills and begin to use the language and reinforce your fluency.
Other Courses	Specific elective courses are not required for admission to Iowa State University.	Specific elective courses are not required for admission to The University of Iowa.	Two years of additional courses from the required subject areas, foreign languages, or fine arts.	Explore! Courses in the fine arts, performing arts, computers, or technology will help round out your high school experience. Your future field of concentration or career may lie in one of those areas. Follow your interests, talents, and the strengths of your school. Remember to choose courses with high academic standards.

<http://www.regents.iowa.gov/RAI/info.html#other>

Regent Admission Index

Students from Iowa high schools planning to begin their studies in fall 2009 or later must have a Regent Admission Index score of at least 245 and take the minimum number of required high school courses to qualify for automatic admission to Iowa State University, the University of Northern Iowa, and the College of Liberal Arts and Sciences at The University of Iowa. Students who achieve a score less than 245 will be considered for admission on an individual basis.

The index combines four factors that strongly predict success at regent universities: ACT or SAT test score, high school rank, high school cumulative grade-point average, and the number of completed high school core courses. An index score of 245 or above is one of the requirements for Iowa high school students to be automatically admitted to Iowa State University, the University of Northern Iowa, and the College of Liberal Arts and Sciences at The University of Iowa.

Website to calculate the RAI Score:

<http://www.regents.iowa.gov/RAI/>

How to calculate RAI Score:

2 x ACT composite score
 + (1 x high school percentile rank)
 + (20 x high school GPA)
+ (5 x total numbers of years of core courses completed in high school)

Your RAI

If Your Index Score is Below 245

Students who don't achieve a Regent Admission Index score of 245, but who otherwise demonstrate potential and commitment to succeed at a regent university, may be offered admission after an individual review of their application.

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

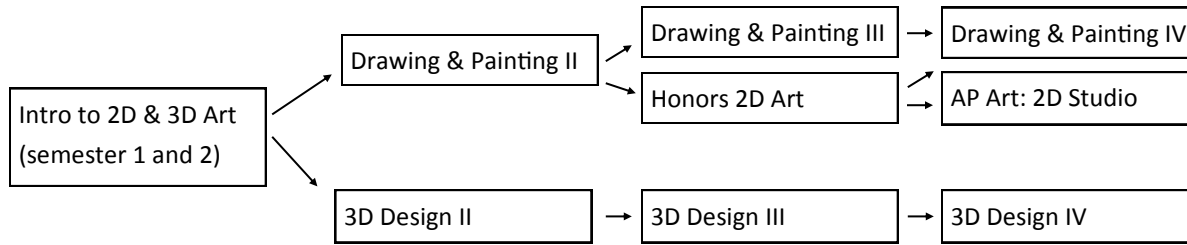
Credit awarded depends on the receiving college/university

No uniform curriculum, training or syllabus

Credits may not transfer between colleges

Art

Art Pathway of Study:



Intro to 2D & 3D Art

ART101,102

Prerequisite: None
Grades: 9-12
(Full Year course) 1 Credit

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. **Satisfactory completion of both ART101 and ART102 is a prerequisite for all advanced art courses.**

3D Design II

ART211,212

Prerequisite: Intro to 2D & 3D Art
Grades: 10-12
(Full Year course) 1 Credit

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 II

ART201,202

Prerequisite: Intro to 2D & 3D Art
Grades: 10-12
(Full Year course) 1 Credit

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 III

ART311,312

Prerequisite: 3D Design II
Grades: 11-12
(Full Year course) 1 Credit

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 III

ART301,302

Prerequisite: Drawing & Painting II
Grades: 11-12
(Full Year course) 1 Credit

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 IV

ART411,412

Prerequisite: 3D Design III
Grades: 12
(Full Year course) 1 Credit

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
(Full Year course) 1 Credit

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 studio art.

Honors 2D Art

ART403,404

Prerequisite: Drawing & Painting II or instructor approval
Grades: 11
(Full Year course) 1 Credit

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

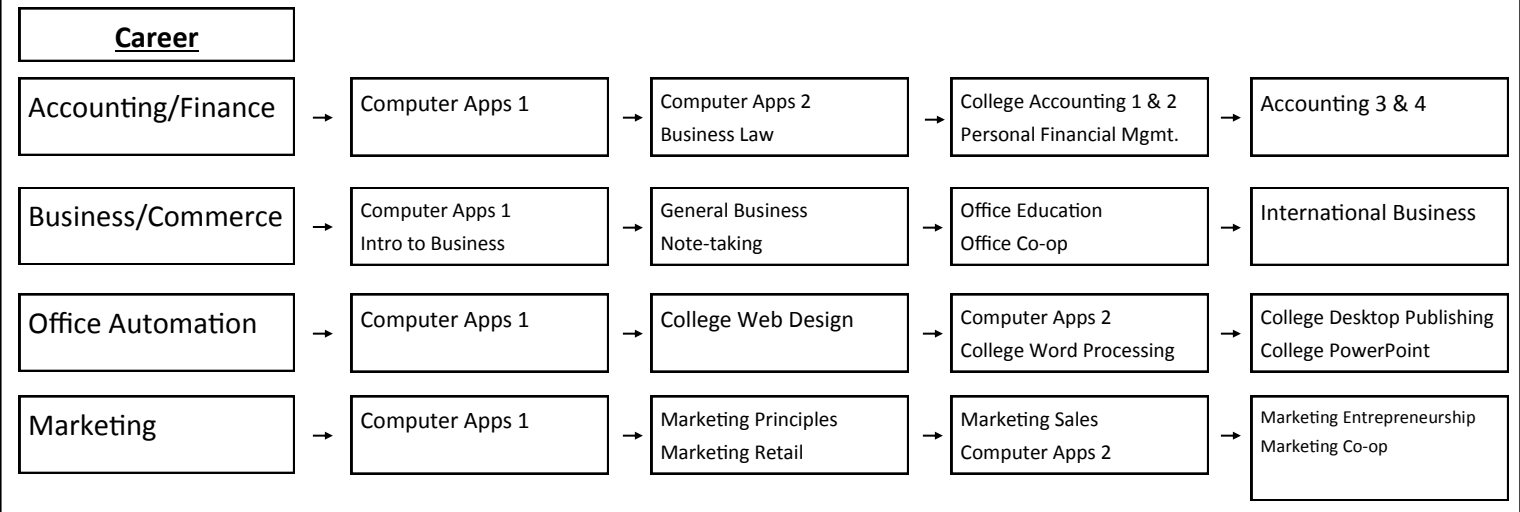
ART501,502

Prerequisite: Drawing & Painting II or instructor approval
Grades: 11-12
(Full Year course) 1 Credit

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.

Business

Career Pathways of Study:



Intro to Business

BUS103

Prerequisite: None

Grades: 9

(Semester course) 0.5 Credit

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.

Personal Financial Management (college)

BUS523



Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

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.

General Business

BUS105

Prerequisite: None

Grades: 9

(Semester course) 0.5 Credit

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.

Word Processing (college)

BUS543



Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Word Processing will give major emphasis to the development of keyboarding skills and the use of an electronic word processing program. This course also includes the development of human relations, communication skills, time management, and decision-making skills necessary for success.

Computer Applications I

BUS111

Prerequisite: None

Grades: 9-12

(Semester course) 0.5 Credit

Computer Applications 1 is designed to introduce students to word processing, presentation software, database and spreadsheet functions. Students will complete individual projects in each area. This course will help students to develop skills needed for both professional and personal use.

PowerPoint & Multimedia (college)

BUS525



Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

The use of PowerPoint presentation software and the Internet are used during this course. Students will learn how to create electronic presentations using a variety of software, basic web pages, computer animation, and effectively search for information using the Internet. Students will also use computer peripherals such as the scanner, digital camera, and computer projection devices.

Business Law

BUS321

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

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.

Computer Applications II (college)

BUS531



Prerequisite: Computer Applications I

Grades: 10-12

(Semester course) 0.5 Credit

Computer Applications 2 includes modern information processing techniques with a heavy 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.

Desktop Publishing (college)

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

This course stresses the in-house preparation of documents, brochures, leaflets, and newspapers. Current procedures and technologies will be used while stressing the importance of communication skills. Individual and group projects will be completed for inclusion in their personal employment portfolios. **Desktop Publishing (college) is offered during odd graduating years.**

BUS527



Intro to Website (college)

Prerequisite: Computer Applications I

Grades: 10-12

(Semester course) 0.5 Credit

This course introduces the student to basic concepts, languages and tools used in the development of an Ecommerce website. Students will identify effective design concepts and characteristics of successful websites. During the course students will be introduced to HTML and DHTML concepts and technologies including HTML, XHTML, CSS, JavaScript and the Document Object Model. Students will use current tools and techniques to design and create commercially oriented websites.

BUS521



Accounting 1 & 2 (college)

Prerequisite: None

Grades: 10-12

(Full Year course) 1 Credit

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.

BUS533,534



Marketing / Retailing

BUS312

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

This course is designed to prepare students for employment or future education in the area of retail marketing. Specific topics studied include site selection, store layout, display, promotion, advertising, pricing, discounting, warehousing, ordering, special sales, selling, and control of merchandise and receipts. Careers in retailing will also be investigated thoroughly. Personal and workplace human relation skills will be studied. **Marketing/Retail is offered during odd graduating years.**

Accounting 3 & 4

BUS401,402

Prerequisite: Accounting I & 2

Grades: 11-12

(Full Year course) 1 Credit

This course involves further study of the accounting cycles, forming partnerships, partnership accounting, departmental accounting, uncollectible accounts, accruals, prepaid expenses, corporation, and cost and managerial accounting.

Marketing / Sales (college)

BUS529

Prerequisite: None

Grades: 11-12

(Semester course) 0.5 Credit

The emphasis of this course will be on selling techniques and human relations skills needed by salespeople. All aspects of the selling process, from preparation to closing and follow-up, will be examined and practiced. Selling as a career will be investigated, and job-seeking skills will be developed. **Marketing/Sales is offered during even graduating years.**



Marketing / Entrepreneurship (college)

BUS530

Prerequisite: None

Grades: 11-12

(Semester course) 0.5 Credit

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. **Marketing/Entrepreneurship is offered during even graduating years.**



Marketing / Principles

BUS311

Prerequisite: None, Co-requisite: Marketing Co-op

Grades: 10-12

(Semester course) 0.5 Credit

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. **Marketing/Principles is offered during odd graduating years.**

Marketing Co-op (college)

BUS537,538

Co-requisite: Marketing Course

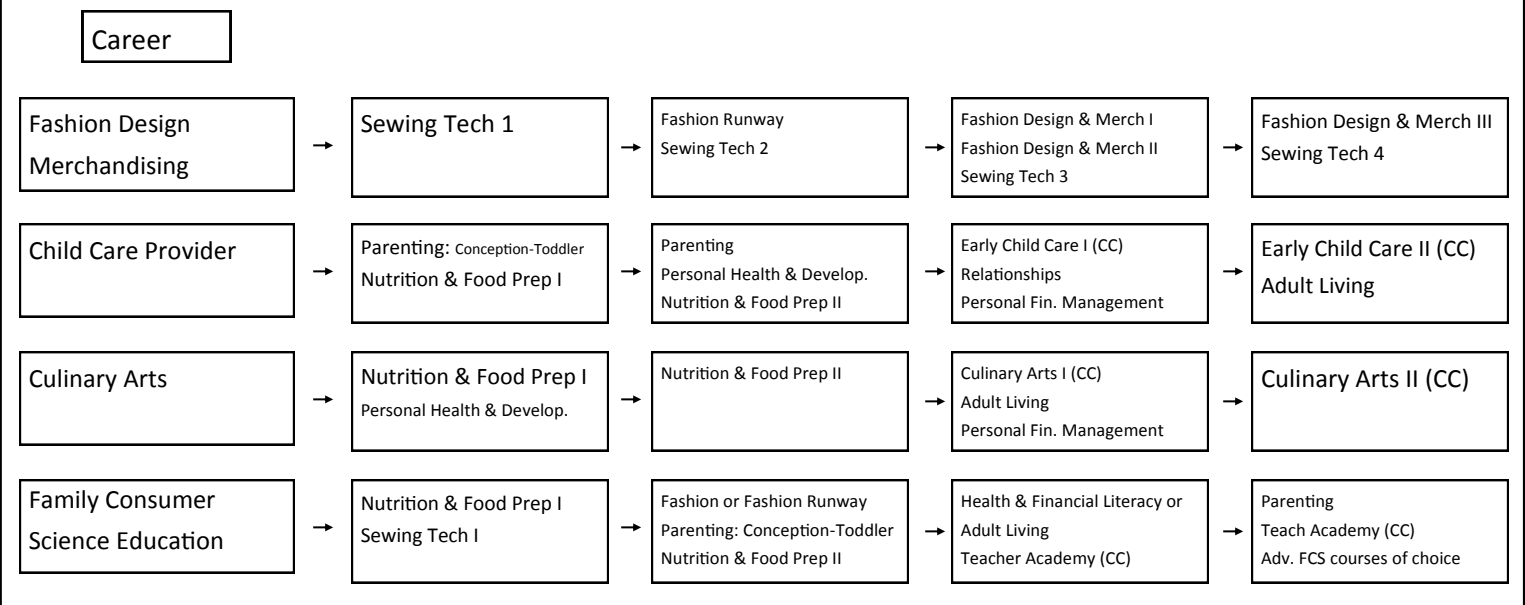
(Full Year course) 1.0 Credit

Marketing Co-op is the work experience for students in the Marketing Program. Students are required to work a minimum of 15 hours per week to earn the co-op credit.



Family & Consumer Sciences

Career Pathways of Study:



Personal Health & Development

FCS101

Prerequisite: None

Grades: 09

(Semester course) 0.5 Credit

Personal Development & Health is a course designed to provide students with information about how to develop a healthy lifestyle. The topics included are self-concept, nutrition, exercise, substance usage and sexuality. Students will apply the decision making process to health choices and examine the interrelation between physical, emotional, mental and social health.



Parenting: Conception-Toddler

FCS103

Prerequisite: None

Grades: 09-12

(Semester course) 0.5 Credit

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. In this class students will experience parenthood by wearing the empathy belly and caring for the Real-Care simulation baby.

Parenting: Preschool-Adolescent

FCS203

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

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 pre-school children and teens.

Nutrition & Food Prep 1

FCS107

Prerequisite: None

Grades: 09-12

(Semester course) 0.5 Credit

In Nutrition and Food Prep I, students will apply nutrition principles to personal diet planning; develop skills in selecting, care and preparation of a variety of food. Labs are designed to help students learn safe food preparation techniques. Labs are designed so students practice basic cooking principles and include pastas, fruits and vegetables, grains, baked goods, proteins (eggs, milk, and plant proteins), and quick breads. Students will cook a wide variety of foods, from breakfast to main dishes to side dishes to desserts.

Nutrition & Food Prep 2

FCS109

Prerequisite: Nutrition & Food Prep 1

Grades: 09-12

(Semester course) 0.5 Credit

In Nutrition and Food Prep II, students will develop skills in meal management to meet individual and family food needs and understand principles of economics and ecology for cost savings. The class builds on the skills learned in Foods 1 and takes a more scientific approach to food preparation—and the we eat our experiments! Labs include a wide range of foods including quick main dishes, homemade yeast breads, scratch pies, gourmet desserts, and a variety of ethnic dishes.

Interior Design & Housing Trends

FCS207

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Fashion Runway FCS213
Prerequisite: None
Grades: 10-12
(Semester course) 0.5 Credit

Students in Fashion Careers will explore fashion careers by doing projects similar to those done in the fashion industry, careers included are fashion designer, marketing, fashion magazine writing. Textile science, fashion promotion and planning a fashion show are also part of this course.

Relationships FCS201
Prerequisite: None
Grades: 10-12
(Semester course) 0.5 Credit

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.

Adult Living Skills FCS301
Prerequisite: None
Grades: 11-12
(Semester course) 0.5 Credit

Adult Living Skills students will prepare for independent living after high school by studying the relationships of job/career/education plans to lifestyle. They will develop basic skills in food preparation, clothing and housing care, and resource management.



Sewing Technology 1 FCS113
Prerequisite: None
Grades: 10-12
(Semester course) 0.5 Credit

Sewing Technology I teaches sewing basics to construct clothing and textile products using appropriate equipment and techniques. Students will create projects such as a stuffed animal, pillow, portfolio, kitchen apron and pajama pants. Students may choose to purchase materials, patterns and notions throughout the semester for projects.

Sewing Technology 2 FCS205
Prerequisite: Sewing Technology 1
Grades: 10-12
(Semester course) 0.5 Credit

In Sewing Technology II, students will experiment with more advanced sewing techniques. Students will create projects such as a messenger bag, pillow, zipper bag, pattern pouch, a shirt and a project of their choice. Students will select individual projects based upon their skill level and interests. Students may choose to purchase and bring materials, patterns, and notion throughout the semester for individual projects.

Advanced Sewing Technology 3 FCS305
Prerequisite: Sewing Technology 2
Grades: 11-12
(Semester course) 0.5 Credit

In Advanced Sewing Technology III, 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

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

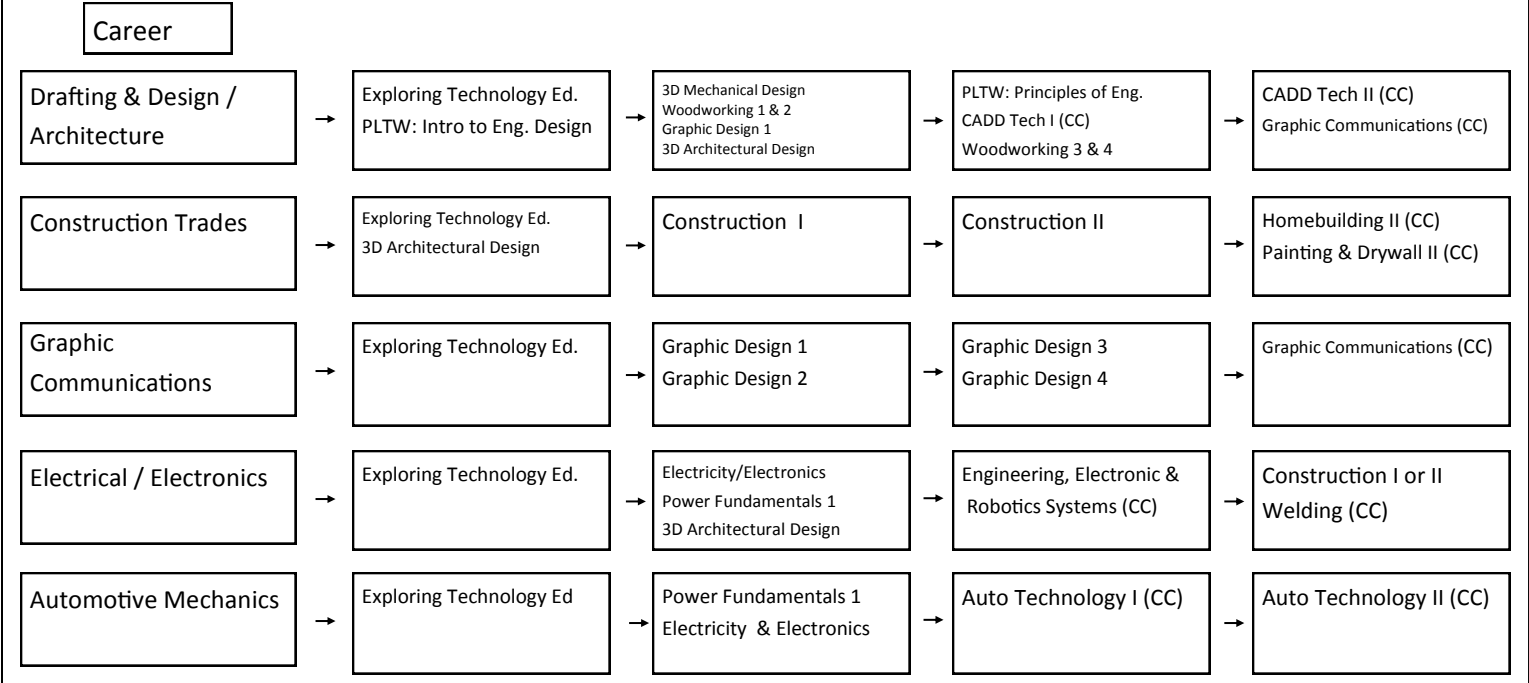
In Advanced Sewing Technology 5, students will continue to advance their skills in the selection, purchase, construction and alternation of clothing and textiles. Students will need to purchase and bring materials, patterns and notions throughout the semester for individual projects. In this class students 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

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.

INDUSTRIAL TECH. EDUCATION

Career Pathways of Study:



Exploring Technology Education

TEC101

Prerequisite: None

Grades: 09

(Semester course) 0.5 Credit

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.

PLTW: Intro to Engineering Design (college)

TEC501,502

Co-requisite: Algebra I; proficient in math

Grades: 09-12

(Full Year course) 1 Credit

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. (This course earns 3 DMACC credits)



Power Fundamentals 1

TEC215

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

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.

PLTW: Principles of Engineering Design (college)

TEC503,504

Prerequisite: TEC501,502, grade level or higher math

Grades: 10-12

(Full Year course) 1 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. This course also looks at possible social and political consequences of technology changes. (This course earns 3 DMACC credits)



Electricity & Electronics

TEC361

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

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.



Drafting: 3D Mechanical Design & Development TEC203

Prerequisite: None

Grades: 09-12

(Semester course) 0.5 Credit

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. This course is a building block to students who may be enrolling in other Tech Ed courses in high school or programs at Central Campus.

Drafting: 3D Architectural Design & Development TEC205

Prerequisite: Drafting: 3D Mechanical Design & Development

Grades: 10-12

(Semester course) 0.5 Credit

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. Students will find this course helpful if they choose to continue in the CADD program at Central Campus and/or if they choose to continue their education in the fields of Architecture, Construction or Engineering.

Graphic Design Fundamentals 1 TEC223

Prerequisite: None

Grades: 09-12

(Semester course) 0.5 Credit

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. The student will learn and apply safety as it relates to the tools, equipment, and materials common to this course.

Graphic Design Technology 2 TEC225

Prerequisite: Graphic Design Fundamentals 1

Grades: 10-12

(Semester course) 0.5 Credit

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 Technology 3 TEC307

Prerequisite: Graphic Design Technology 2

Grades: 11-12

(Semester course) 0.5 Credit

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.

Woodworking Fundamentals 1 & 2 TEC211,213

Prerequisite: None

Grades: 10-12

(Full Year course) 1.0 Credit

The Career & Technical 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. Students will build upon their skills from other academic areas as they interpret technical information from working drawings, complete board feet calculations and study wood science. Woods 2 will build upon the woodworking skills, knowledge and problem-solving abilities acquired during the first semester.

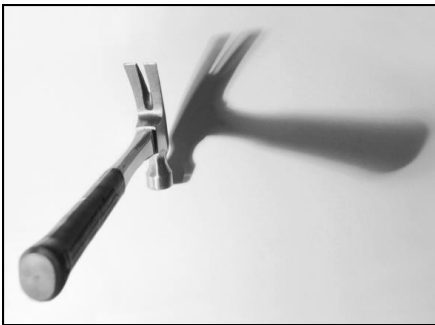
Advanced Woodworking Fundamentals 3 & 4 TEC301,302

Prerequisite: Woodworking Fundamentals 2

Grades: 11-12

(Full year course) 1.0 Credit

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



Construction 1: Into to Industry TEC231

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

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.

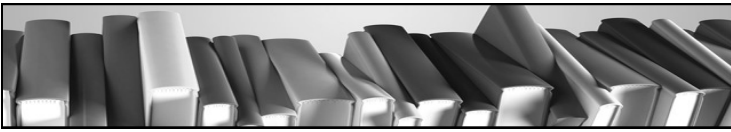
Construction II: Pre-Apprentice TEC331,332

Prerequisite: Construction I

Grades: 10-12

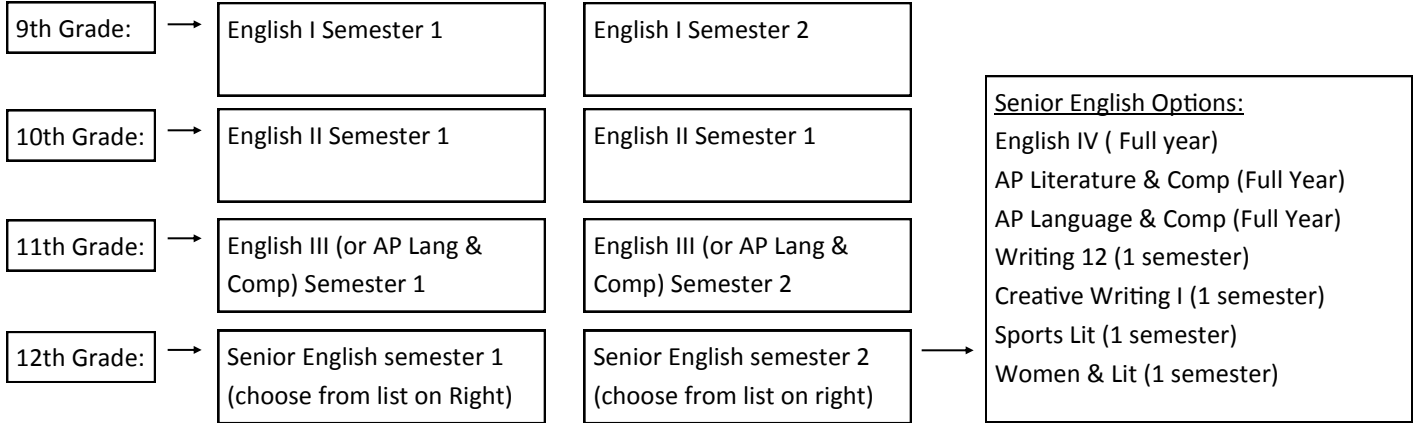
(Full Year course) 1 Credit

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.



Language Arts

English/Language Arts Pathway of Study: Need 4.0 Credits for Graduation



English I **NCAA** LA103,105

Grades: 09
(Full Year course) 1 Credit

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.

Writing 12 LA409

Grades: 12
(Semester course) 0.5 Credit

This composition course stresses practice in writing through daily writing pieces as well as several compositions throughout the semester. Writing skills include supporting ideas with valid reasons and evidence, effectively organizing written pieces, connecting ideas from multiple sources, and writing about literature and informational texts.

English II **NCAA** LA205,207

Grades: 10
(Full Year course) 1 Credit

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.

Creative Writing I **NCAA** LA303

Grades: 11-12
(Semester course) 0.5 Credit

Creative Writing is a valuable course for those who have an interest in writing. The goal is to achieve a greater appreciation of literature by creating one's own fiction and by reading and responding to other's work while attending to structure and style. Students will be encouraged to select their own topics with the support and guidance of the instructor.

English III **NCAA** LA305,308

Grades: 11
(Full Year course) 1 Credit

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.

Lit & Comp: Women and Literature LA419

Grades: 11-12
(Semester course) 0.5 Credit

In Literature and Composition: Women and Literature students examine literary and informational texts by and about women; the emphasis is on works not read in other English classes. The literature represents several centuries and cultures. Classes include group projects, discussion, film, documentaries, and current issues. Each student keeps a journal, and the class has its own library. Major student assessments will include narrative writing, research papers, literary analyses, interviews, ethnographic research, and persuasive writing. Success in this course will require significant time devoted to reading and writing.

English IV **NCAA** LA403, 404

Grades: 12
(Full Year course) 1 Credit

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.

Lit & Comp: Sports Lit LA416

Grades: 12
(Semester course) 0.5 Credit

In Sports Lit, students will examine the positive and negative impact of sports on athletes, fans and society through a variety of non-fiction literary sources as well as documentary films. Particular focus is placed on the following questions: Why do we play sports? Why do we watch sports? Are sports good for us? Major student assessments will included argumentative essays, in-depth film analyses, and group presentations.

AP Language & Composition **NCAA** LA501,502

Grades: 11
(Full Year course) 1 Credit
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.

AP Literature & Composition **NCAA** LA503,504

Grades: 12
(Full Year course) 1 Credit
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.

Journalism LA213

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

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, and obtain the understanding of deadlines and interviewing through practical application.

Newspaper LA321,322

Prerequisite: Journalism
Grades: 11-12
(Full Year course) 1 Credit

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.

Yearbook LA323,324

Prerequisite: Journalism
Grades: 11-12
(Full Year course) 1 Credit

Yearbook is a hands-on laboratory 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.

Modern Expression LA141

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

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 world around them.

Graphic Novels LA241

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

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. Students will also work on projects, in-class writing, and speeches to continue their analysis of literature in the form of graphic novels.



Theater Arts I LA129,130

Prerequisite: None
Grades: 09-12
(Full Year course) 1 Credit

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.

Theater Arts II LA229,230

Prerequisite: Theater Arts I
Grades: 10-12
(Full Year course) 1 Credit

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.

Theater Arts III LA329,330

Prerequisite: Theater Arts II
Grades: 11-12
(Full Year course) 1 Credit

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
(Full Year course) 1 Credit

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.

Play Production I LA131,132

Prerequisite: None
Grades: 10-12
(Full Year course) 1 Credit

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.

Mathematics



Mathematics Pathway of Study: Need 3.0 Credits for Graduation

9th Grade:	→ Algebra I Semester 1 or Geometry Semester 1	Algebra I Semester 2 or Geometry Semester 2
10th Grade:	→ Geometry Semester 1 or Algebra II Semester 1	Geometry Semester 2 or Algebra II Semester 2
11th Grade:	→ Algebra II Semester 1 or Pre-Calculus Semester 1	Algebra II Semester 2 or Pre-Calculus Semester 2
12th Grade:	→ Intro to Stat or Pre-Calculus Semester 1 or AP Calculus Semester 1 or Prob & Stat Semester 1	Intro to Trig or Pre-Calculus Semester 2 or AP Calculus Semester 2 or Prob & Stat Semester 2

Algebra I

NCAA MTH111,112



Grades: 9-12
(Full Year course) 1 Credit

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
(Full Year course) 1 Credit

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
(Full Year course) 1 Credit

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

Introduction to Statistics is a one-semester class designed primarily for seniors. Prerequisites 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

Introduction to Trigonometry is a one-semester class designed primarily for seniors. 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.

College Pre-Calculus

NCAA MTH533,534

Prerequisite: C or higher in Algebra II
Grades: 9-12
(Full Year course) 1 Credit



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 (This course earns 5 DMACC credits).

Student will need an ALEKS Math Assessment score of 30 to qualify for dual credits (for more info, see the next page).

Pre-Calculus

NCAA MTH401,402

Prerequisite: C or higher in Algebra II
Grades: 9-12
(Full Year course) 1 Credit

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.

College AP Statistics

NCAA MTH551,556



Prerequisite: C or higher in Algebra II

Grades: 10-12

(Full Year course) 1 Credit

The study of experimental design, measuring techniques, predictions, data analysis, and interpretations enable students to become more critical of statistical data. (This course earns 4 DMACC credits at the completion of MTH556). **Student will need an ALEKS Math Assessment score of 30 to qualify for dual credits. (see below for more info).**

AP Statistics

NCAA MTH551,552

Prerequisite: C or higher in Algebra II

Grades: 10-12

(Full Year course) 1 Credit

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.

College AP Calculus AB

NCAA MTH557,558



Prerequisite: C or higher in Pre-Calc

Grades: 10-12

(Full Year course) 1 Credit

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. This rigorous course includes properties of functions, limits, differential calculus, and integral calculus. (This course earns 5 DMACC credits) **Student will need an ALEKS Math Assessment score of 30 to qualify for dual credits (see below for more info).**

AP Calculus AB

NCAA MTH501,502

Prerequisite: C or higher in Pre-Calc

Grades: 10-12

(Full Year course) 1 Credit

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.

ALEKS Math Assessment

In order to be eligible to earn dual credit through DMACC for an upper-level math class, students will need to take the ALEKS Math Assessment and earn a score of at least 30. Below are the instructions for taking the ALEKS Math Assessment. Please contact Karen Thompson, Math Department Chair, with additional questions.

Directions to take the DMACC ALEKS Math Assessment

If you have previously taken a DMACC course, please begin at step 3.

1. Go to go.dmacc.edu/careeradvantage/QUICKAPP
2. Fill out the **Career Advantage Quick App** accurately and click **"Submit Data."**
3. Look for two emails from DMACC: one containing your **DMACC ID number** and the other containing your **PIN and Password.**
4. Go to www.dmacc.edu and click **"LOGIN"** towards the top right corner of the web page.
5. Click on **"Wed Information System"** under students.
6. Enter your DMACC ID and PIN that were sent in the emails.
If you need help—contact DMACC Tech Support at (515)-965-7300 or at techsupport@dmacc.edu.
7. Click on the **"Student Services"** tab and then click on **"ALEKS Math Placement Assessment."**
8. Complete the ALEKS Math Assessment and print your score report.
9. Submit your score sheet to the Scheduling Office (in the Lincoln Main Library).

The code for Lincoln is 1180 (you may need this during the sign-up process).

*Your score will either allow you to register for a DMACC Concurrent Enrollment Math course through your high school or you may use the ALEKS online learning module to improve your score before retesting. Failing to complete any required online learning modules may within 6 months may require you to pay a fee to retake the ALEKS test in the future.

Music

Band MUS101,102
Prerequisite: Middle School Band
Grades: 09-12
(Full Year course) 1 Credit

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.

9th grade band students must take Band lessons (MUS181,182)
Students in may audition for Color Guard for the Marching Band Season (MUS113)

Orchestra MUS121,122
Prerequisite: Middle School Orchestra
Grades: 09-12
(Full Year course) 1 Credit

This course is for all interested string players. Students participate in several concerts per year.

Jazz Band MUS107,108
Prerequisite: Middle School Band (Jazz Instrument), Audition
Grades: 09-12
(Full Year course) 1 Credit

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.**

9th Grade Choir
Prerequisite: None
Grades: 09
(Full Year course) 1 Credit

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.

9th Grade Treble Choir MUS171,172
9th Grade Bass Concert Choir MUS139,140

Concert Choir MUS139,140
Prerequisite: None
Grades: 10-12
(Full Year course) 1 Credit

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.

Treble Choir MUS171,172
Prerequisite: None
Grades: 10-12
(Full Year course) 1 Credit

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.

Show Choir MUS217,218
Prerequisite: Audition
Grades: 10-12
(Full Year course) 1 Credit

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.**

Chamber Choir MUS315,316
Prerequisite: Audition
Grades: 10-12
(Full Year course) 1 Credit

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.

Jazz Choir MUS221,222
Prerequisite: Audition
Grades: 10-12
(Full Year course) 1 Credits

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.

Introduction to Music Theory MUS305
Prerequisite: None
Grades: 10-12
(Semester course) 0.5 Credits

Students will study traditional music theory, including scales, chords, intervals, transposition, and beginning part-writing.

AP Music Theory MUS501,502
Prerequisite: Instrumental/vocal music participation or Instructor Approval
Grades: 11-12
(Full Year course) 1 Credits

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.

PHYSICAL EDUCATION

Team Games/Act & Sports

PHY105/PHY106

Prerequisite: None

Grades: 9-12

(Semester course) 0.5 Credit

Students will participate, assess and improve levels of flexibility, cardiovascular fitness, muscular strength and endurance, and body composition. Students will demonstrate competence in the individual skills fundamental to the playing of a specific game, develop intermediate and advanced offensive and defensive strategies specific to the sport, apply specific game strategies to situations that affect the positive game performance, and analyze strengths and weakness of various game strategies to make appropriate application decisions. **This course will be taken by all 9th grade students and they will earn their CPR certification through this course.**

Fitness Walking

PHY115 /PHY116

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Walkers can improve their aerobic conditioning by building their speed and following a program of a variety of interval, heart-rate guided, and endurance workouts. Moderate to vigorous intensity cardio workouts burn calories and fat while reducing health risks. Students will participate, assess and improve levels of flexibility, cardiovascular fitness, muscular strength and endurance, and body composition.

Total Body Fitness & Conditioning

PHY109/PHY110

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

Demonstrate an understanding of the knowledge and skills essential for strength training and fitness. Demonstrate knowledge of weight training and fitness components as required through daily participation. Develop and apply appropriate safety practices related to strength training and specific activities within the environment. Students will participate, assess and improve levels of flexibility, cardio-vascular fitness, muscular strength and endurance, and body composition.

Aquatics

PHY241/PHY242

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

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, cardio-vascular fitness, muscular strength and endurance, and body composition.

Athletic Fitness (Competitive Team Sports)

PHY111/PHY112

Prerequisite: Member of a Lincoln athletic team

Grades: 10-12

(Semester course) 0.5 Credit

The central focus of this course will be the development of proper safety, technique, and the application of current principles of training for success in interscholastic sports. Some of the different types of training include, but are not limited to: resistance/free weight, speed, agility, plyometric, and flexibility. Enrollment is limited to ALHS student-athletes. The overall goal of this course is to physically prepare athletes for their respective sports.

Bowling

PHY331

Prerequisite: None, student must have own transportation

Grades: 11-12

(Semester course) 0.5 Credit

Students learn everything that they need to know to participate in the sport of bowling. The curriculum includes skill instruction (specifically, the approach, the arm swing, the release and equipment selection). In addition, students are instructed and assessed on the application of their skill while bowling and the application of strategy applied (e.g. spares etc.). Finally, students learn the in's and out's of scoring, rules and basic bowling etiquette. **Students must pay for their own games (the cost has historically been roughly \$3.00 per class) and provide their own transportation to and from the bowling alley. This class meets in the Roundhouse at Main for the first week of class**

Innovative Fitness

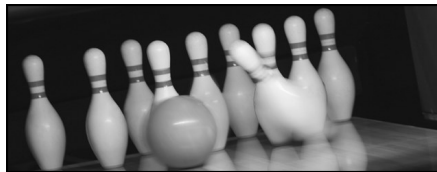
PHY131

Prerequisite: None

Grades: 10-12

(Semester course) 0.5 Credit

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 programs like T25, Zumba, P90X, TRX, Bosu training and much more. Students will gain knowledge and skills to help develop personal workout plans. Students must be willing to work out at an intense cardio level, break a sweat and expect a body transformation.



Contract PE

PHY901/PHY902

Prerequisite: see below

Grades: 9-12

(Semester course) 0.5 Credit

All Contract PE applications must be approved by the Principal. To apply for Contract PE, students must meet the following criteria:

12th grade:

Students are allowed to take Contract PE for 1 semester of their senior year in place of a regular PE course if **ONE** of the following conditions are met:

- Student is involved in a work study or other educational program that requires the student's absence from school
- Student must be carrying a full schedule for the current semester
- Student is involved in a school-sponsored athletic program or activity supervised by a staff member with a coaching endorsement

9th-11th Grade:

For non-12th grade students, **ALL** of the following conditions must be met to apply for Contract PE:

- Student must be carrying a full schedule for the current semester
- Students must have no physical education failures to make up from previous years
- Student must be involved in a school-sponsored athletic or activity supervised by a staff member with a coaching endorsement.

Science

Science Pathway of Study: Need 3.0 Credits for Graduation

Course Options:

- Forensic Science (1 Semester)
- Botany (1 Semester)
- Zoology (1 Semester)
- Anatomy & Physiology (1 Semester)
- Astronomy (1 Semester)
- Environmental Science (Full Year)
- Chemistry (Full Year)
- AP Chemistry (Full Year)
- AP Environmental Science (Full Year)
- AP Biology (Full Year)
- AP Physics I (Full Year)

9th Grade:

→ Conceptual Physics or Earth Science Semester 1

Conceptual Physics or Earth Science Semester 2

10th Grade:

→ Biology Semester 1

Biology Semester 2

11th Grade:

→ Elective Science (choose from list on right)

Elective Science (choose from list on right)

12th Grade:

→ Elective Science (choose from list on right)

Elective Science (choose from list on right)

Conceptual Physics

NCAA SCI205,206

Prerequisite: None

Grades: 09

(Full Year course) 1 Credit

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.

Environmental Science

NCAA SCI201,202

Prerequisite: Biology

Grades: 10-12

(Full Year course) 1 Credit

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.

Earth Science

NCAA SCI207,208

Prerequisite: None

Grades: 09

(Full Year course) 1 Credit

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. This course is part of the sequence of science courses students should consider for a strong, diversified academic program in science.

Chemistry

NCAA SCI301,302

Prerequisite: Algebra I

Grades: 10-12

(Full Year course) 1 Credit

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.

Biology

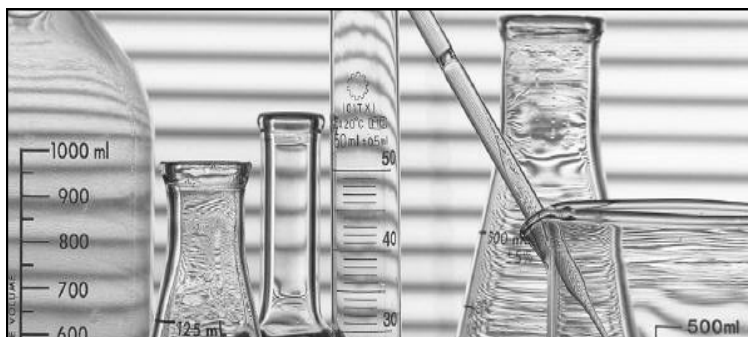
NCAA SCI203,204

Prerequisite: None

Grades: 10-12

(Full Year course) 1 Credit

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. Biology serves as a prerequisite for several advanced life science courses including Environmental Science, Biology II, AP Biology, and Marine Biology.



Botany NCAA SCI305

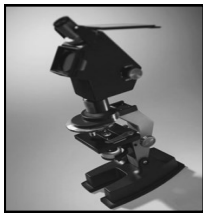
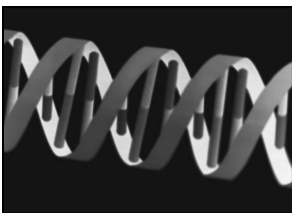
Prerequisite: Biology
Grades: 11-12
(Semester course) 0.5 Credit

Botany is the study of plants. In this course, students with an interest in plants will have opportunities to practice skills of inquiry as they study the life cycle, growth patterns, and structure/function of plants as well as the role of plants in our ecosystem. Laboratory investigations are regularly incorporated. **Botany is offered during even graduating years.**

Zoology NCAA SCI307

Prerequisite: Biology
Grades: 11-12
(Semester course) 0.5 Credit

Zoology is the study of animals. In this course, students with an interest in animals will have opportunities to practice skills of inquiry as they study relationships among animal groups and their environment, classification and life cycles of animal groups, and relationships between animal groups. Laboratory investigations are regularly incorporated. **Zoology is offered during even graduating years.**



Anatomy & Physiology NCAA SCI309

Prerequisite: Biology
Grades: 11-12
(Semester course) 0.5 Credit

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. **Anatomy & Physiology is offered during odd graduating years.**

Forensic Science SCI303

Prerequisite: Biology
Grades: 11-12
(Semester course) 0.5 Credit

Forensic Science is an innovative and unique one semester course that develops critical thinking and problem-solving skills. Fingerprinting identification, hair analysis, and trace evidence examination are only a few of the many topics discussed. This course is rich in lab work and is a natural vehicle for students to practice science as inquiry. Forensic science is multidisciplinary; it is an applied science that encompasses the sciences, technology, mathematics, social studies, and language arts. **Forensic Science is offered during odd graduating years.**

Astronomy SCI311

Prerequisite: Algebra I and Earth Science or Conceptual Physics
Grades: 10-12
(Semester course) 0.5 Credit

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 NCAA SCI507,508

Prerequisite: Biology
Co-requisite: Chemistry, AP Biology Lab
Grades: 11-12
(Full Year course) 1 Credit

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 and includes an additional block scheduled for lab work for one semester.**

AP Chemistry SCI505,506,593,594

Prerequisite: Chemistry
Co-requisite: AP Chemistry Lab
Grades: 11-12
(Full Year course) 1 Credit

AP Chemistry is an intensive study of matter at the atomic and molecular levels, emphasizing inorganic chemistry. There is a concentration on the mathematical treatment of the principles of college chemistry. The course covers formula writings, types of chemical reactions and stoichiometry, atomic and molecular structure, gases, kinetics, equilibrium, acid-base chemistry, and thermodynamics. **Laboratory work is extensive, is equivalent to freshman college-level with formal reports and includes an additional block scheduled for lab work for two semesters.**

AP Environmental Science NCAA SCI501,502

Prerequisite: Biology
Grades: 10-12
(Full Year course) 1 Credit

AP Environmental Science is a one-year high school course, equivalent to a one-semester college course stressing scientific principles and analysis. The goal 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 environmental through firsthand observation. This course is a project based course designed around 5 cycles of instruction that all loop back to the central theme question of "how can we live more sustainably?" By looping back to core environmental tenets and facts, we leave the students with not only the knowledge but the desire to be good stewards of the environment.

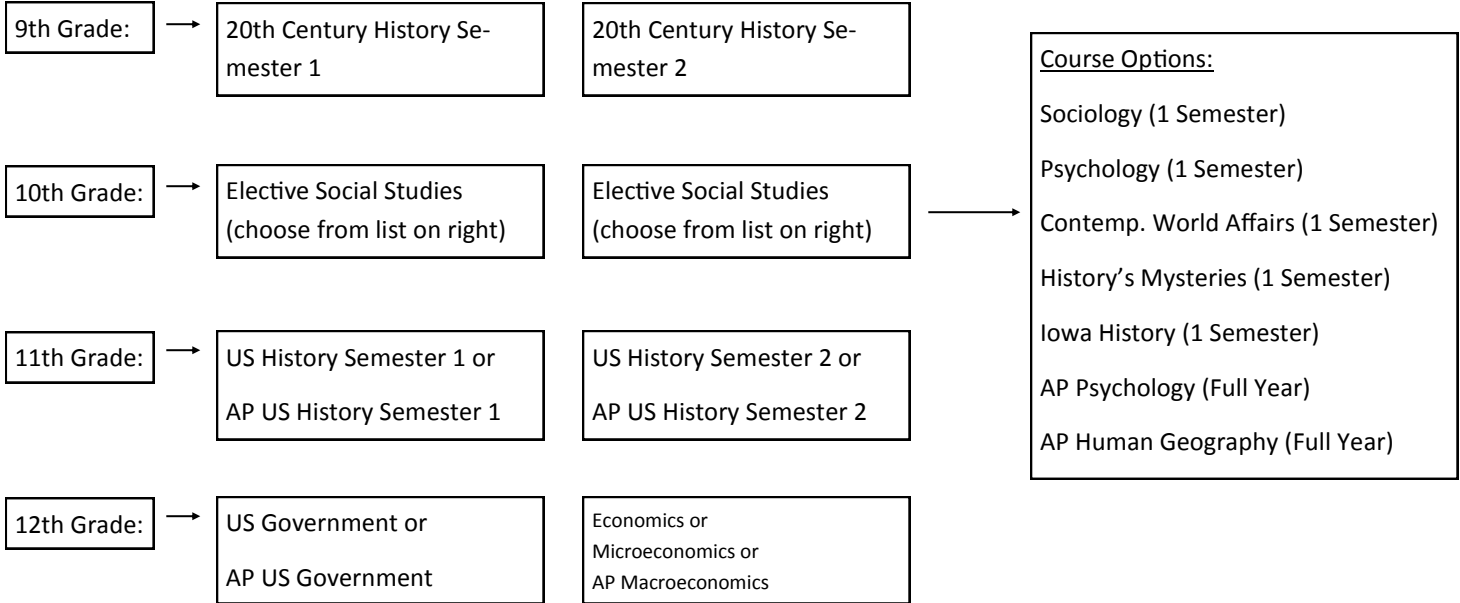
AP Physics I NCAA SCI525,526

Prerequisite: Algebra II
Grades: 11-12
(Full Year course) 1 Credit

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.

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

(Full Year course) 1 Credit



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 the past to understand why things came to be that way. For example, a world-wide struggle for civil rights was a hallmark of the 20th Century (India, US, South Africa, etc.) A thorough investigation of this struggle requires an understanding of pre-20th Century institutions like slavery, imperialism and race relations. This class helps provide that backdrop. 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.

United States Government

NCAA SOC405

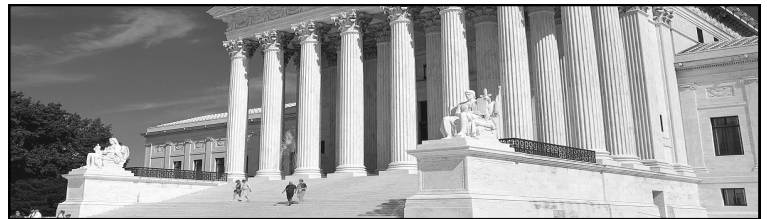
Prerequisite: None

Grades: 12

(Semester course) 0.5 Credit



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.



United States History

NCAA SOC201,202

Prerequisite: None

Grades: 11-12

(Full Year course) 1 Credit



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



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 employees. 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.

Microeconomics SOC401

Prerequisite: None
Grades: 11-12
(Semester course) 0.5 Credit (this course meets the Econ graduation requirement)

The American free enterprise system is studied by retailing and comparing our economics system to others around the world. The formation and operation of a student company creates a unique economic learning experience. This courses includes fundamental economics concepts and consumer management skills necessary for the student’s effective participation in the marketplace.

AP United States History **NCAA** SOC501,502

Prerequisite: None
Grades: 11-12
(Full Year course) 1 Credit

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.

AP United States Government **NCAA** SOC507,508

Prerequisite: 2.0 Credits of History
Grades: 12
(Full Year course) 1 Credit

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 2012, Government in Action, 112th 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.

AP Macroeconomics **NCAA** SOC511

Prerequisite: 2.0 Credits of history
Grades: 12
(Semester course) 0.5 Credit

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 employees. 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.

Psychology **NCAA** SOC205

Prerequisite: 1.0 credits of history
Grades: 10-12
(Semester course) 0.5 Credit

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

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

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

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. This course may serve as .5 credit recovery for students who did not pass U.S. history; a full year of U.S. history should be the primary enrollment for all students.

AP Human Geography **NCAA** SOC519,520

Prerequisite: 20th Century Contemporary History
Grades: 10-12
(Full Year course) 1 Credit

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.

AP Psychology **NCAA** SOC513,514

Prerequisite: 2.0 credits of history
Grades: 11-12
(Full Year course) 1 Credit

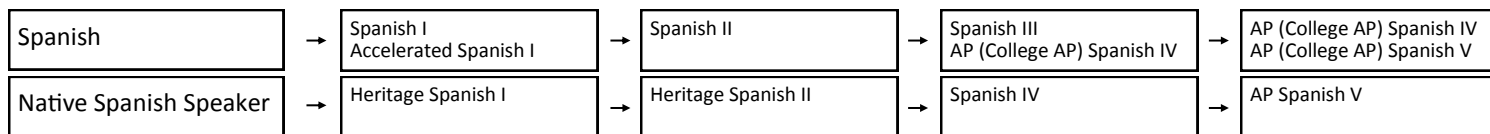
This year-long college-level course covers in depth all topics in introductory psychology. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the facts, principles, and phenomena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



World Language



Pathways of Study:



Additional pathways are available through Central Academy in Arabic, Italian, German, French, Chinese and Japanese.

Heritage Spanish I

NCAA WL213,214

Prerequisite: None (Native Spanish Speaker)

Grades: 9-12

(Full Year course) 1 Credit

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

(Full Year course) 1 Credit

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.

Spanish I

NCAA WL111,112

Prerequisite: None

Grades: 09-12

(Full Year course) 1 Credit

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

(Full Year course) 1 Credit

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

(Full Year course) 1 Credit

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.

College AP Spanish IV

NCAA WL519,520

Prerequisite: Spanish III

Grades: 11-12

(Full Year course) 1 Credit

College AP Spanish IV is review or instruction of all grammatical structures. Multiple genres are used to develop appreciation of, awareness of, and respect for Hispanic cultures. The course prepares students to demonstrate proficiency through interpersonal, interpretative, and presentational modes of communication. Communication skills are expanded to include analysis, synthesis, and support of opinions. (This course offers 5 DMACC credits).



AP Spanish IV

NCAA WL515,516

Prerequisite: Spanish III

Grades: 11-12

(Full Year course) 1 Credit

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.

College AP Spanish V

NCAA WL521,522

Prerequisite: Spanish IV

Grades: 11-12

(Full Year course) 1 Credit

College AP Spanish V is an in-depth review of all grammatical structures with a focus on reading, writing, speaking and listening. Students will learn to analyze, synthesize, and support opinions on a variety of topics. Appreciation of, awareness of, and respect for Hispanic cultures are expanded through multiple genres. Students will demonstrate proficiency through interpersonal, interpretative, and presentational projects. (This course offers 4 DMACC credits).



Miscellaneous

Leadership

MIS315,316

Prerequisite: Election to Student Council or Senior Board

Grades: 09-12

(Full Year course) 1 Credit

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 Full Year course) 0.5 Credit per semester

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

(Full Year course) 1 Credit



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.

Teacher Aide

MIS125

Prerequisite: Good academic standing, teacher approval

Grades: 11-12

(Semester or Full Year course) No Credit

Only students who are in good standing and considered on track in terms of credits earned are eligible to be teacher aids. Teacher Aid positions are available in the Main Office, Library, Attendance Office, Scheduling Office, and Student Services Office. Students may also be a teacher aid for a specific teacher, but are required to get the teacher's written approval prior to being placed into the teacher aid course. Students will assist office staff and teachers with various tasks, including answering phones, making copies, filing, giving tours, etc. Attendance is taken for the Teacher Aide, but no credit is earned for this course.

AVID 9

MIS161,162

Prerequisite: Application Required

Grades: 09

(Full Year course) 1 Credit



AVID, Advancement Via Individual Determination, is a program that helps students prepare for college and to help them get the most out of their high school learning experience. Students must be self-motivated and have the expectation that college is in their future. The AVID program is geared to help students achieve their post-secondary academic goals.

AVID 10

MIS261,262

Prerequisite: AVID 9

Grades: 10

(Full Year course) 1 Credit



AVID, Advancement Via Individual Determination, is a program that helps students prepare for college and to help them get the most out of their high school learning experience. Students must be self-motivated and have the expectation that college is in their future. The AVID program is geared to help students achieve their post-secondary academic goals.

AVID 11

MIS361,362

Prerequisite: AVID 10

Grades: 11

(Full Year course) 1 Credit



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AVID 12

MIS461,462

Prerequisite: AVID 11

Grades: 12

(Full Year course) 1 Credit



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AVID Student Tutor

MIS259,260

Prerequisite: AVID II, concurrent enrollment in Dual Credit or AP course

Grades: 11-12

(Full Year course) .25 credits/semester

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.

Special Education Courses

Learning Enhancement

MIS9016,9026

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

Grade: 09-12

(Full Year course) 1 Credit

This class is designed for students that have documented skill deficits in reading, written language, math &/or behavior. Curriculum will address and support the coursework in general education classes through skill development and problem-solving strategies. Development of confidence in individual skills and a sense of achievement are emphasized and developed. Transition in the areas of living, learning and working are explored.

Transitions Lrng Enhancement

MIS903,904

Prerequisite: Approval of the mental health support team

Grade: 09-12

(Full Year course) 1 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

(Full Year course) 1 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.

Young Adult Literature

LA9515,9525

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

Grade: 09-12

(Full Year course) 1 Credit

This course is recommended for students needing additional reading support.

Service Learning

MIS9955,9965

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

Grade: 09-12

(Full Year course) 1 Credit

This is a repeatable course. The major components of this special education class include: Understanding and Identifying the role of Volunteerism in society, Exploring types of volunteerism, Participating in Community Outreach & School Outreach opportunities.

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: LA9535,9555

English II: LA9655,9675

English III: LA9755,9775

English IV: LA9835,9845

Power English: LA9575,9585

20th Century History: SOC9115,9125

US History : SOC9615,9625

Government: SOC9835

Economics: SOC9815

Earth Science: SCI9075,9085

Environmental Science: SCI9115,9125

Biology: SCI9035,9045

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: MTH9595,9605

Algebra/Geometry Foundations: MTH9185,9195

Lrng Tran Math: MIS9885,9925

ELL COURSES

ELL II MIS923,924

Prerequisite: English Language Learner Program Participant
Grade: 09-12
(Full year course) 1 Credit

In this course students continue developing academic reading, writing, listening, and speaking skills. The focus of this course is to assist students with their transition into mainstream classes. Students at this level are full-time at the home school and meet for one block each day. These students attend sheltered content area classes.

ELL III LA925,926

Prerequisite: English Language Learner Program Participant
Grade: 09-12
(Full year course) 1 Credit

In this course students learn strategies and academic processes through a gradual release of responsibility. Academic reading, writing, listening, and speaking skills continue to develop and expand through student-directed activities. Students at this level are full-time at the home school, and meet for one block every other day. These students may attend both sheltered and mainstream content area classes.

ELL IV LA927,928

Prerequisite: English Language Learner Program Participant
Grade: 09-12
(Full year course) 1 Credit

In this course students are independently applying strategies to expand their academic reading, writing, listening and speaking skills. This advanced course prepares students for future academic success outside the ELL classroom. Students at this level are full-time at the home school, and meet for one block every other day. These students may attend both sheltered and mainstream content area classes.

ELL English I LA929,930

Prerequisite: English Language Learner Program Participant
Grade: 09-12
(Full year course) 1 Credit

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

Prerequisite: English Language Learner Program Participant
Grade: 10-12
(Full year course) 1 Credit

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 20th Century World History SOC943,944

Prerequisite: English Language Learner Program Participant
Grade: 09-12
(Full year course) 1 Credit

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.

ELL US History SOC931,932

Prerequisite: English Language Learner Program Participant
Grade: 09-12
(Full year course) 1 Credit

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.

ELL US Government SOC935

Prerequisite: English Language Learner Program Participant
Grade: 10-12
(Semester course) 0.5 Credit

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?

ELL Economics SOC937

Prerequisite: English Language Learner Program Participant
Grade: 10-12
(Semester course) 0.5 Credit

The study of economics is a study of choices, a matter of decision-making. Economics will help students understand how our economy works and how economic incentives influence consumers, business owners, investors, and government employees. This course introduces high school students to economics concepts through a combination of practical problems, analysis, and economic philosophy.

ELL Science & Math Courses

ELL Active Math I: MTH939,940

ELL Algebra I: MTH943,944

ELL Geometry: MTH959,960

ELL Earth Science: SCI921,922

ELL Biology: SCI925,926

ELL Environmental Science: SCI927,928

*see the general education version of these courses for course information.

CENTRAL CAMPUS

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

All necessary applications for the Central Campus courses listed below can be completed on the Central Campus website under 'Enrollment'. Students must complete any required applications and orientations in order to be scheduled into a Central Campus course.

Central Campus Class	# of Blocks	Requirements and Pre-Requisites	Grades
Advanced Anatomy & Physiology	2	Biology; co-requisite: Chemistry	11-12
Animal Science & Horticulture	4		10-12
Aquarium Science	2	2.5 GPA	10-12
Auto Collision Repair	4	* Requires Application, Tech Ed Course	11-12
Automotive Fundamentals	1 (1 sem)	Tech Ed Course	10
Automotive Technology	4	Tech Ed Course	11-12
Aviation Technology	4	Tech Ed Course	10-12
Biotechnology in Agri-Science	2	Animal Science/Horticulture I Recommended	11-12
Biotechnology in Medicine	2	Biology; co-requisite: Chemistry	11-12
Broadcasting & Film	1, 2 or 4	*Requires Application; C in speech and English	11-12
Career Opportunities in Health (COH)	4	*Requires Application and Orientation; 2.5 GPA	11-12
CISCO	2	Computer Tech & Networking Recommended	11-12
Commercial Photography	1 or 2	2.5 GPA or B in two Art or related computer classes	11-12
Computer Aided Drafting & Design (CADD)	2	Drafting course	11-12
Computer Technology & Networking	2	B in Computer Applications	11-12
Construction Trades	2		11-12
Culinary Arts & Restaurant Management	3 or 4	*Requires Application and Orientation; 2.0 GPA, Foods	10-12
Early Childhood Careers	4	*Requires Application and Orientation; 2.0 GPA; Parenting Course	11-12
Electronics & Robotics and Digital Electronics	2	C in Algebra I and PLTW Courses	10-12
Fashion Design & Merchandising	3 or 4	*Requires Application and Orientation; B in Sewing	11-12
Graphic Communication	1 or 2	Two Art, Computer, Journalism or Tech Ed classes	11-12
Health Science Specialist & Human Bio w/Lab	4	*Requires Application and Orientation; 2.5 GPA	11-12
Home Building	4	*Requires Application and Orientation; Woods class	10-12
Horticulture/Environmental Science	2	Animal Science/Horticulture I Recommended	11-12
Intro to Pilot Training	1	Tech Ed Course	11-12
Iowa Energy & Sustainability	2		10-12
JROTC	1	*Requires Application and Orientation	09-12
Landscaping	2	Animal Science/Horticulture I Recommended	11-12
Marine Biology	2	2.5 GPA; C in Geometry or Algebra II, English, and Biology	10-12
Mobile Apps	1		11-12
Nurse Aid (75 hour)	2 (1 sem)	*Requires Application and Orientation; 2.0 GPA	11-12
Nurse Aid Advanced	2	*Requires Application and Orientation; 2.5 GPA	11-12
Painting & Drywall	4	Tech Ed Courses	10-12
PLTW: Capstone	1	PLTW Course	11-12
PLTW: Civil & Architectural Engineering	2	PLTW Course	11-12
Software Engineering	1	PLTW Course	11-12
Software & Gaming Design	1		11-12
Sports Officiating	1		9-12
Teacher Academy	2	*Requires Application and Orientation; 2.5 GPA	11-12
Urban Leadership	1		09-12
Vet Careers	2	Animal Science/Horticulture I Recommended	11-12
Welding	4	Tech Ed Course	11-12

Notes