



ANKENY COMMUNITY SCHOOL DISTRICT

# HIGH SCHOOL COURSE DESCRIPTION GUIDE 2025-2026



# To the Student

The 2025-2026 Ankeny Community School District High School Course Description Guide is designed to help you make course selections for the upcoming school year. It is recommended that the information contained in this guide be used as a resource in choosing courses. Counselors, teachers, parents, and friends can also provide valuable information needed to make appropriate selections.

We encourage you to take courses that will challenge and prepare you for your future. Students planning to attend college should take college preparatory language arts, science, social studies, mathematics, and modern language. These courses are basic to many college majors.

***Please take the time to choose your courses wisely.***

## Course Planning Website

The high school and middle school guidance web pages can be found at [www.ankenyschools.org](http://www.ankenyschools.org) and is an important resource for students and parents. The following topics are included on the website:

- Academic assistance.
- College and career planning, ACT/SAT testing, scholarship and financial aid.
- Transcript requests.
- Silver Cord and volunteer opportunities.
- Summer camps and other opportunities for our students.
- Student/parent outreach resources for mental health and/or substance abuse/counseling, health care, clothing, food and school supply needs.
- The course description guide and course request forms.

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# Planning Essentials

## Graduation Requirements

<b>Classes of 2026-2028</b>	<b>48 Credits</b>
<b>Language Arts</b>	<b>8 Credits</b>
<b>Math</b>	<b>6 Credits</b>
<i>Math credits must be sequential &amp; minimally include Algebra II</i>	
<b>Science</b>	<b>6 Credits</b>
<i>Credits must include Earth/Space, Biology, Chemistry and Physics</i>	
<b>Social Studies</b>	<b>8 Credits</b>
<i>Credits must include US History, Government and Economics to meet Financial Literacy requirement</i>	
<b>Health</b>	<b>1 Credit</b>
<b>Physical Education</b>	<b>4 Credits</b>
<b>Electives</b>	<b>15 Credits</b>



## Grading Scale & Marks

### District Grading Scale

A	=	92.5 - 100%
A-	=	89.5 - 92.4%
B+	=	86.5 - 89.4%
B	=	82.5 - 86.4%
B-	=	79.5 - 82.4%
C+	=	76.5 - 79.4%
C	=	72.5 - 76.4%
C-	=	69.5 - 72.4%
D+	=	66.5 - 69.4%
D	=	62.5 - 66.4%
D-	=	59.5 - 62.4%
F	=	0 - 59.4%

### Work Habit/Behavior Standard Marks

MS	=	Meets standard
PM	=	Partially meets standard
DM	=	Does not meet standard
NE	=	No evidence

### Other Transcript Marks

P	=	Pass for credit (not included in GPA)
I	=	Incomplete - no credit
EX	=	Exempt (not included in GPA)
W	=	Withdrawal
AW	=	Administrative withdrawal (not included in GPA)
AU	=	Audit - no credit (not included in GPA)
NM	=	No mark (for courses from Spring 2020, not included in GPA)

## Levels of Proficiency

Level	Expanded Meaning
<b>Advanced (ADV)</b>	The student demonstrates learning beyond the expectations of proficiency
<b>Meeting (MTG)</b>	The student demonstrates learning that meets the expectations of proficiency
<b>Progressing (PRG)</b>	The student demonstrates learning that partially meets the expectations of proficiency
<b>Beginning (BEG)</b>	The student demonstrates learning that begins to meet the expectations of proficiency
<b>Insufficient (INS)</b>	The student has not yet submitted the required amount of evidence. It is missing, or it is incomplete

## Transcript Weights

### Non-Weighted Courses

A = 4.00  
 A- = 3.67  
 B+ = 3.33  
 B = 3.00  
 B- = 2.67  
 C+ = 2.33  
 C = 2.00  
 C- = 1.67  
 D+ = 1.33  
 D = 1.00  
 D- = 0.67  
 F = 0.00

### Weighted Courses\*

A = 5.00  
 A- = 4.67  
 B+ = 4.33  
 B = 4.00  
 B- = 3.67  
 C+ = 3.33  
 C = 3.00  
 C- = 2.67  
 D+ = 2.33  
 D = 2.00  
 D- = 1.67  
 F = 0.00

\* Weighted courses include AP, DMACC, college-level courses.

## Diploma Distinctions

Students may earn either the standard diploma or the honors diploma. For further information, students should see their school counselor. Honors distinction requirements are as follows:

### Honors Distinction Diploma

Point system awarded to all students who have:

- Completed all Ankeny graduation requirements
- A weighted GPA of 3.67 or higher after 7 semesters
- Accumulated 12 or more points based on the point system below.

**Weighted grade point average (WGPA) greater than or equal to 4.0** **4 Points**

**Completion of 4 sequential years of math from the following:** **2 Points**

→ *Algebra I, Geometry, Algebra II (Stats), Algebra II (Calc), Functions w/Analysis, Discrete Math Principles, Probability & Stats, Math of Financial Literacy, Mathematical Theory, Trigonometry/Pre-Calc, Applied Math, AP Statistics, AP Calculus AB, and AP Calculus BC*

**Completion of 4 years modern language from the following:** **2 Points**

→ *French I, French II, French III, French IV, French V, Spanish I, Spanish II, Spanish III, Spanish IV, Spanish V, Chinese I, Chinese II, Chinese III, Chinese IV, Spanish for Heritage Speakers*

**Completion of 4 years science from the following:** **2 Points**

→ *Earth & Space, Biology, Chemistry, Physics, Enriched Earth & Space, Enriched Biology, Enriched Chemistry, Enriched Physics, Anatomy & Physiology, AP Biology, AP Chemistry, AP Physics, AP Environmental Science*

**Completion of Advanced Placement (AP) course and corresponding AP exam** **1 Point/Course\***

*\*Maximum points available = 13*

## Seal of Biliteracy

This award recognizes students who demonstrate an advanced level of academic proficiency in two or more languages, one of which is English. For more information, students should visit the Seal of Biliteracy web page on their high school website or see their school counselor. To be eligible to be awarded the Iowa Seal of Biliteracy, students must meet both proficiency requirements below:

- Each student shall demonstrate proficiency in English as evidenced by scores on one of these assessments: SAT, ACT, ISASP, AP Language, AP Literature or ELPA21.
- Each student shall demonstrate proficiency in a language other than English through recognized assessment options for the language.

Upon receiving the Seal, students will be recognized in the following ways:

- The Seal of Biliteracy will be affixed to the student's diploma.
- An indication will be made on the student's transcript.

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## Admission to Iowa's Regent Universities (ISU, Iowa, UNI)

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### Regent Admission Index (RAI)

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Iowa high school graduates must achieve a Regent Admission Index (RAI) score of at least 245 and take the minimum number of [required high school courses](#) to qualify for automatic admission as freshmen to Iowa State University, the University of Northern Iowa, and the College of Liberal Arts and Sciences at the University of Iowa. The [RAI Core Course Lists](#) provide each Iowa high school with a list of their respective courses that are accepted for the RAI. Students who achieve a score less than 245 will be considered for admission on an individual basis.

The RAI combines factors that strongly predict success at the Regent Universities: ACT or SAT test score, high school cumulative grade-point average, and the number of completed high school core courses.

Ankeny students will use the RAI formula, below, when estimating their RAI score, as it is designed for highschools that do not assign a class rank.

#### **RAI Formula**

$$(3 \times \text{ACT composite score}) + \\ (30 \times \text{Cumulative GPA}) + \\ (5 \times \text{Years of RAI courses in core subjects}) = \text{RAI Score}$$



## Minimum High School Requirements for Admission

### IOWA STATE UNIVERSITY

**English/Language Arts:** 4 years emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.

**Math:** 3 years, including one year each of algebra, geometry, and advanced algebra.

**Natural Science:** 3 years, including at least two years of courses which emphasize elements of biology, chemistry or physics.

**Social Studies:** 2 years for admission to the Colleges of Agriculture and Life Sciences, Business, Design, Human Sciences and Engineering. 3 years for admission to the College of Liberal Arts and Sciences.

**World Languages:** 2 years of a single world language for admission to the College of Liberal Arts and Sciences and the College of Engineering.

**Other Courses:** Specific elective courses are not required for admission to Iowa State University.

### THE UNIVERSITY OF IOWA

**English/Language Arts:** 4 years emphasizing the analysis and interpretation of literature, composition, and speech.

**Math:** 3 years, including two years of algebra and one year of geometry, for admission to the College of Liberal Arts and Sciences. 4 years, including two years of algebra, one year each of geometry, higher math (trigonometry, analysis, or calculus), for admission to the College of Engineering.

**Natural Science:** 3 years, including courses in physical science, biology, chemistry, environmental science and physics for admission to the College of Liberal Arts and Sciences. 3 years, with at least one year each in chemistry and physics, for admission to the College of Engineering. Nursing - 3 years including one year each of biology, chemistry and physics.

**Social Studies:** 3 years, with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences. 2 years, with U.S. history and world history recommended for admission to the College of Engineering.

**World Languages:** 2 years of a single world language are required for admission. For many degrees, the fourth year of proficiency is required for graduation. Nursing - minimum second-level proficiency in one world language.

**Other Courses:** Specific elective courses are not required for admission.

### University of Northern Iowa

**English/Language Arts:** 4 years, including one year of composition; may also include one year of speech, communication, or journalism.

**Math:** 3 years, including the equivalent of algebra, geometry, and algebra II.

**Natural Science:** 3 years, including courses in general science, biology, chemistry, earth science, or physics; laboratory experience highly recommended.

**Social Studies:** 3 years, including courses in anthropology, economics, geography, government, history, psychology, or sociology.

**Foreign Language:** World language courses are not required for admission. However, two years of a world language in high school with a C- or above in the last term will meet the university graduation requirement.

**Other Courses:** Two years of additional courses from the required subject areas, world languages, or fine arts.

## Course Retake Policy

It is the policy of Ankeny Community School District (ACSD) that courses are taken for credit one time. The only way students can retake a course for credit is if the student failed the course in the first attempt. The initial grade AND the second grade will be included on the transcript and in the student's GPA. If a student wishes to retake a class, s/he may do so as an audit. The audit course must be IN ADDITION to minimum registration requirements. There are some courses at AHS and ACHS that can be repeated for credit. They include: instrumental music, vocal music, yearbook, advanced journalism, AP Art Studio: 2D Design, Pre-Apprenticeship, Internship and Orbis Project-Based Experiences. The nature of these courses is such that the student will be completing new material each year.

## Advanced Placement (AP) Program

Ankeny Community School District (ACSD) offers Advanced Placement (AP) courses across multiple subject areas. AP courses are taught by highly qualified high school teachers who use the AP Course Descriptions to guide them. Each course is developed by a committee composed of college faculty and AP teachers and covers the breadth of information, skills, and assignments found in the corresponding college course. The AP testing program falls under the College Board testing program.

AP courses provide students with a rigorous classroom experience designed to help them acquire the skills and habits needed to be successful in college. AP students will be expected to perform at a level equivalent to students in the freshman year of college. More than 90 percent of four-year colleges in the US give students credit, advanced placement, or both on the basis of AP exam scores. Additionally, students taking multiple tests may have the opportunity to be designated as AP Scholars.

### AP Exams

AP exams are typically administered over a two week time period in May. The fee for each exam will be approximately \$97. Some students may qualify for free or reduced exam fees and should speak to the AP Coordinator regarding the fee reduction program through AP. The registration process for AP exams begins in October and concludes in November. Detailed information about the AP program can be found at <http://www.collegeboard.com/student/testing/ap/about.html>

### AP Courses Offered for the 2024-2025 School Year\*

AP Art Studio: 2D Design	AP Environmental Science
AP Art Studio: 3D Design	AP European History
AP Biology	AP Macroeconomics
AP Statistics	AP Microeconomics
AP Calculus AB	AP Music Theory
AP Calculus BC	AP Physics
AP Chemistry	AP Psychology
AP Computer Science Principles	AP United States Government and Politics
AP Computer Science A	AP Comparative Government and Politics
AP English Literature and Composition	AP United States History
AP English Language and Composition	
AP Human Geography	

\* AP course offerings subject to change based on course enrollment

## Athletic Eligibility

### NCAA Athletic Eligibility - [www.eligibilitycenter.org](http://www.eligibilitycenter.org)

All students planning to enroll in college as a freshman and wanting to participate in Division I or Division II athletics must be certified by the NCAA Eligibility Center (formerly called the NCAA Clearinghouse). The Eligibility Center was established to ensure consistent application of NCAA initial-eligibility requirements for all prospective student athletes at all member institutions. It is the responsibility of the prospective student athlete to make sure the Eligibility Center has the documents it needs to certify his/her eligibility.

### NAIA Athletic Eligibility - [www.playnaia.org](http://www.playnaia.org)

The NAIA Eligibility Center is responsible for determining the NAIA eligibility of first-time student athletes. Any student playing NAIA sports for the first time must meet the eligibility requirements. Students must have their eligibility determined by the NAIA Eligibility Center, and all NAIA schools are bound by the center's decisions. High school seniors who wish to participate at an NAIA school need to register at: [www.playnaia.org](http://www.playnaia.org)

### NJCAA Athletic Eligibility - [www.njcaa.org](http://www.njcaa.org)

The purpose of this corporation shall be to promote and foster junior college athletics on intersectional and national levels so that results will be consistent with the total educational program of its members.

## Postsecondary Enrollment Options (PSEO)

The Postsecondary Enrollment Options Act (Chapter 261C, Iowa Code) was enacted in 1987 to promote rigorous academic pursuits and to provide a wider variety of options to high school students by enabling eleventh and twelfth grade students to enroll part time in nonsectarian courses in eligible postsecondary institutions of higher learning in Iowa. In order to be eligible to participate in this program, the student must meet these qualifications:

- Only students enrolled in grades eleven and twelve in public school are eligible, or grade ten students who have been identified for the Ankeny Extended Learning Program (AELP).
- Students who graduate after eight semesters of attendance (9-10) may not participate in the program after graduation.
- Students who request and are granted early graduation will not be permitted to participate under the Act for the remainder of that regular school year. The student must be enrolled in six courses in addition to physical education at Ankeny High School or Ankeny Centennial High School to enroll in a postsecondary enrollment course.
- For more information, please refer to Board Policy 604.06 - Instruction at a Post-Secondary Educational Institution.

It is necessary for all students who are interested in this program to have all forms filled out and also the approval of their counselor prior to their enrollment.

### Postsecondary Enrollment Options (PSEO) At A Glance

<b>Eligible Students</b>	Junior or Senior. Identified AELP students in grades 9-10.
<b>Location</b>	Online or on campus at an eligible postsecondary institution.
<b>High School Credit/GPA</b>	Determined on a case-by-case basis.
<b>Course Restrictions</b>	PSEO is subject to district approval and acceptance to the postsecondary institution.
<b>Summer Option</b>	Up to 7 hours for incoming 12th graders <b><i>if the student</i></b> pays the cost of attendance.
<b>Drop Dates/Deadlines</b>	Students who fail to complete a course must reimburse the district.

# DMACC Career Advantage

Ankeny Community School District offers many opportunities for high school students to earn college credit through our partnership with Des Moines Area Community College (DMACC). These opportunities include concurrent enrollment courses offered in our high schools, online classes, and on-campus career academies. The Iowa Department of Education has determined that a student must score in the proficient or above range on the statewide assessment or demonstrate proficiency in reading, mathematics, and science in order to participate in DMACC-related programs. Students seeking to enroll in a CTE course at DMACC are exempt from the proficiency requirement. However, students may be required to complete an assessment administered by the eligible community college to determine their readiness to enroll in CTE coursework.

DMACC courses should only be taken after thoughtful consideration of a student's college or career goals. The grade for these courses will be recorded on both the student's high school and college transcripts. Students who are removed from DMACC classes will receive an F for the semester. In many cases, credits earned from DMACC will transfer to other colleges and universities. However, each college/university establishes its own policy for acceptance of transfer credit. It is the student's responsibility to contact the college of his or her choice to find out about their credit transfer policy.

For more information, please refer to Board Policy 604.06 - Instruction at a Post Secondary Educational Institution and 604.13 Virtual/Online Courses.

Courses listed are accurate at the time of printing but are subject to change. The number of DMACC credits available per building may also vary. Please see a school counselor for the most updated information.

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## Concurrent Enrollment

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The first category of eligible courses under our partnership with DMACC is **concurrent enrollment**. These courses are taught on-site in our district by Ankeny instructors certified by DMACC. The cost of these courses is covered by the high school at no charge to the student. Students will register for DMACC at the beginning of the semester in which the credit will be earned. Registration will be conducted by Ankeny staff as part of class.

### Concurrent Enrollment At A Glance

<b>Eligible Students</b>	Students in grades 9-12 who meet proficiency requirements for SYP programs.
<b>Location</b>	Ankeny Schools
<b>High School Credit/GPA</b>	Courses that meet for one period a day for one semester are worth 1 credit. Grades will be recorded on the transcript according to the weighted scale.
<b>Summer Option</b>	No
<b>Drop Dates/Deadlines</b>	First five days of the semester unless approved by an administrator.

**2025-2026 Approved Concurrent Enrollment Courses****Revised 10.31.24**

<b>Ankeny Course</b>		<b>DMACC Course</b>	<b>DMACC Credits</b>
<b>ART506</b>	Principles of Digital Photography	<b>ART186</b>	Principles of Digital Photography 3 Credits
		<b>ART225</b>	Photoshop for Photographers 3 Credits
<b>CON504</b>	Building Trades	<b>CON333</b>	Materials/Construction Theory 5 Credits
		<b>CON336</b>	Care/Use of Hand/Power Tools 1 Credit
		<b>CON337</b>	Construction Blueprint Reading 1 Credit
<b>DFT503</b>	CAD I	<b>CAD119</b>	Intro to Computer Aided Drafting 3 Credits
<b>DFT504</b>	CAD II	<b>CAD125</b>	Intermediate CADD-Mechanical 3 Credits
<b>DFT502</b>	Architectural CAD	<b>CAD126</b>	Intermediate CAD-Architecture 3 Credits
<b>EDU510</b>	Teacher Academy: Intro to Ed	<b>EDU210</b>	Initial Field Experience 3 Credits
<b>EDU511</b>	Teacher Academy: Intern in Ed	<b>EDU218</b>	Foundations of Education 2 Credits
<b>ENG507</b>	Intro to Engineering Design	<b>EGT400</b>	Intro to Engineering Design 3 Credits
<b>ENG508</b>	Principles of Engineering	<b>EGT410</b>	Principles of Engineering 3 Credits
<b>ELA501</b>	Communication Skills	<b>COM703</b>	Communication Skills 3 Credits
<b>ELA502</b>	Fundamentals of Oral Comm.	<b>SPC101</b>	Fundamentals of Oral Communication 3 Credits
<b>ELA503**</b>	Introduction to Theatre	<b>DRA101</b>	Intro to Theatre 3 Credits
<b>ELA504</b>	Creative Writing	<b>ENG221</b>	Creative Writing 3 Credits
<b>ELA505</b>	Introduction to Film	<b>HUM120</b>	Intro to Film 3 Credits
<b>ELA601</b>	AP Literature & Composition	<b>LIT101</b>	Intro to Literature 3 Credits
		<b>LIT111</b>	American Lit II 3 Credits
<b>ELA602</b>	AP Language & Composition	<b>ENG105</b>	Composition I 3 Credits
		<b>ENG106</b>	Composition II 3 Credits
<b>FCS501</b>	Food Prep I	<b>HCM143</b>	Food Prep I 3 Credits
<b>FCS502</b>	Food Prep I Lab	<b>HCM144</b>	Food Prep I Lab 3 Credits
<b>MAT501</b>	Trigonometry/Pre-Calculus	<b>MAT129</b>	Pre-calculus 5 Credits
<b>MAT504</b>	Applied Math	<b>MAT772</b>	Applied Math 3 Credits
<b>MAT601</b>	AP Calculus AB	<b>MAT211</b>	Calculus I 5 Credits
<b>MAT602</b>	AP Calculus BC	<b>MAT217</b>	Calculus II 5 Credits
<b>MAT603</b>	AP Statistics	<b>MAT156</b>	Statistics 3 Credits
<b>MLA511</b>	French V	<b>FLF242</b>	Intermediate French II 4 Credits
<b>MLA512</b>	Spanish V	<b>FLS242</b>	Intermediate Spanish II 4 Credits
<b>ORB550</b>	Career Exploration & Development	<b>WBL100</b>	Exploring Careers 1 Credit
		<b>WBL110</b>	Employability Skills 2 Credits
<b>SCI601</b>	AP Biology	<b>BIO112</b>	General Biology I 4 Credits
		<b>BIO113</b>	General Biology II 4 Credits
<b>SST501**</b>	Introduction to Sociology	<b>SOC110</b>	Intro to Sociology 3 Credits

**\*\*** Indicates a course that may only be available for credit at a particular building. See course description for details.

## Career Academy Programs

The second category of eligible courses under our partnership with DMACC includes **career academies**. Most of the DMACC Career Academy programs are one year long (two semesters), and several may offer a second year of programming. These programs involve college level coursework infused with professional skills designed to provide state-of-the-art career and technical training. Some courses require prerequisite coursework. Registration is handled by the school counselor.

### Career Academy Programs At A Glance

<b>Eligible Students</b>	Students in grades 9-12 who meet proficiency requirements for SYP programs.
<b>Location</b>	DMACC Ankeny Campus. Students must provide their own transportation.
<b>High School Credit/GPA</b>	The sum of all individual career academy programs will total 2 credits/semester.
<b>Summer Option</b>	No
<b>Drop Dates/Deadlines</b>	Determined annually by DMACC.

### 2025-2026 Approved Career Academy Programs

**Revised 10.31.24**

**Auto Collision Technology** **2 Credits/Semester, Full Year**  
**DMACC Ankeny Campus** **Grades 11-12**  
**Recommended: Consumer Automotive (CTE201)** **\*15 DMACC Credits**

This program introduces students to the highly technological industry of Auto Collision and Repair. Students will gain experience in the areas of basic shop operations and procedures, welding, painting and shop safety. Completion of this program as a high school student provides the opportunity to complete the college diploma program in two college semesters.

**Automotive Technology** **2 Credits/Semester, Full Year**  
**DMACC Ankeny Campus** **Grades 11-12**  
**Recommended: Consumer Automotive (CTE201)** **\*12 DMACC Credits**

The Automotive Technology program is designed to prepare students for employment in the automotive service industry. This technological program allows students to gain experience with shop tools, automotive engines, brakes, suspension and alignment. A second year of programming is available for returning students by arrangement.

**Business** **2 Credits/Semester, Full Year**  
**DMACC Ankeny Campus** **Grades 11-12**  
**Recommended: Accounting I (BUS501), 500-Level** **\*14 DMACC Credits**

The Business Academy is an exploratory academy for students who have an interest in entering the business profession but are not sure what pathway they want to go. Students are provided a foundation of courses that will prepare them for entrance into multiple business-related postsecondary opportunities.

**Computer-Aided Design Technology** **2 Credits/Semester, Full Year**  
**DMACC Ankeny Campus** **Grades 11-12**  
**Recommended: CAD I / Industrial CAD** **\*12 DMACC Credits**

If you have mechanical aptitude, attention for detail, analytical thinking and are a dependable team member, CAD Tech could be for you. Careers in computer-aided design, including drawing in both two-dimensional and three dimensional realms, designing new products, creating models, and more. Through DMACC's computer-aided design (CAD) technology program, you'll learn how to use a variety of software packages, create prototypes, practice reverse engineering, perform geometric dimensioning, and more.

**Computer Programming** **2 Credits/Semester, Full Year or Semester**  
**DMACC Ankeny Campus** **Grades 11-12**  
*Recommended: Programming courses in Ankeny* **\*18 DMACC Credits (Full Year Option)**  
 Students have the opportunity to sign up for one or both semesters of courses that provide an introduction to the latest in computer science and programming.

**Criminal Justice** **2 Credits/Semester, Full Year**  
**DMACC Ankeny Campus** **Grades 11-12**  
*Prerequisites: None* **\*14 DMACC Credits**  
 The Criminal Justice program introduces students to criminal law and crime scene investigation and prepares them for entry into the criminal justice field.

**Culinary Arts** **2 Credits/Semester, Full Year**  
**DMACC Ankeny Campus** **Grades 11-12**  
*Prerequisites: Food Prep I (FCS501), Food Prep I Lab (FCS502)* **\*14 DMACC Credits**  
 Through hands-on experience, you will learn the scientific principles used in food preparation, the hospitality industry, plus fundamentals of dining and sanitation. A second year of programming is available for returning students by arrangement.

**Diesel Technology** **2 Credits/Semester, Full Year**  
**DMACC Ankeny Campus** **Grades 11-12**  
*Recommended: Consumer Automotive (AUT201)* **\*12 DMACC Credits**  
 This program prepares students for a career in the area of diesel repair. Instruction is in the repair, maintenance and testing of diesel engines, power trains and components of trucks and construction equipment.

**Digital Marketing** **2 Credits/Semester, Full Year**  
**DMACC Ankeny Campus** **Grades 11-12**  
*Recommended:* **\*12 DMACC Credits**  
 Details coming 11/5/24

**Emergency Medical Technician (EMT)** **2 Credits/Semester, Semester**  
**DMACC Ankeny Campus** **Grade 12**  
*Prerequisites: Pre-approval is necessary. Students must be 17 years of age by the first day of class. Students will be required to attend clinical and field rotations during the course of the class which will require an investment of approximately 32 hours outside of the normal classroom hours. Students must pass a physical fitness test, a criminal background check and complete CPR certification prior to starting.* **\*8 DMACC Credits**  
 Ready to make a difference? The Emergency Medical Technician program will provide students with fundamental knowledge and skills needed to provide lifesaving services to your community. In EMT students will function in uncommon and high stress situations by performing comprehensive patient assessments, obtain vital signs, control hemorrhaging, bandage wounds, administer cardiopulmonary resuscitation, including use of automated external defibrillators and provide prehospital emergency medical care of simple and multiple system injuries.

**Fashion and Design** **2 Credits/Semester, Full Year**  
**DMACC Ankeny Campus** **Grades 11-12**  
*Prerequisites: Courses require extended lab time in the evenings and/or weekends.* **\*12 DMACC Credits**  
 Immerse yourself in a dynamic, creative environment with other students who are passionate about the apparel and interior fashion industry. Whether you want to design, learn the business, or discover the latest trends, we'll help you find your place in the fashion industry.

**Health Occupations  
DMACC Ankeny Campus****2 Credits/Semester, Full Year  
Grades 11-12*****Prerequisites: Courses require extended lab time in the evenings and/or weekends.*** **\*14 DMACC Credits**

This year-long program will provide students the opportunity to explore careers in healthcare and work toward CNA training. Students who enroll 7:45-9:45am will complete CNA in the fall and students who enroll 12:45-2:45pm will complete CNA in the spring.

**Machine Operations/Tool & Die  
DMACC Ankeny Campus****2 Credits/Semester, Full Year  
Grades 11-12*****Prerequisites: Algebra II (MAT301), Communication Skills (ELA501) prior to graduation*** **\*11 DMACC Credits**

Students will learn the basics of welding, automation, machine tool operation (CNC), computer-aided drafting and design (CAD), and other workplace skills.



## Online Academy

The third category of eligible courses under our partnership with DMACC includes approved **online courses**. While DMACC offers a number of online classes, only those classes approved by the district under our partnership agreement will be eligible for high school credit. Online courses should only be taken after careful consideration of a student's college and career goals. Some courses require prerequisite coursework. Registration is handled by the school counselor.

### Online Courses At A Glance

<b>Eligible Students</b>	Students in grades 9-12 who meet proficiency requirements for SYP programs.
<b>Location</b>	Online.
<b>High School Credit/GPA</b>	Each successfully completed online course is worth 1 high school credit.
<b>Summer Option</b>	No
<b>Drop Dates/Deadlines</b>	Determined annually by DMACC.

### 2025-2026 Approved Online Courses

**Revised 10.31.24**

Course #	Course Name	Credits	Course #	Course Name	Credits
<b>OA.ANT105</b>	Cultural Anthropology	3 Cr.	<b>OA.LIT188</b>	Detective Fiction	3 Cr.
<b>OA.ANT202</b>	Human Origins	3 Cr.	<b>OA.LIT190</b>	Women Writers	3 Cr.
<b>OA.ART101</b>	Art Appreciation	3 Cr.	<b>OA.LIT193</b>	Humor in Literature	3 Cr.
<b>OA.BIO145</b>	Ecology of Iowa	3 Cr.	<b>OA.MAT110</b>	Math for Liberal Arts	3 Cr.
<b>OA.BIO260</b>	Biology of Aging	3 Cr.	<b>OA.MAT141</b>	Finite Math	4 Cr.
<b>OA.BUS112</b>	Business Math	3 Cr.	<b>OA.MAT162</b>	Principles of Business Stats	4 Cr.
<b>OA.CRJ100</b>	Intro to Criminal Justice	3 Cr.	<b>OA.MAT164</b>	Calculus for Business/SS	4 Cr.
<b>OA.CRJ111</b>	Police and Society	3 Cr.	<b>OA.MGT145</b>	Human Relations/Management	3 Cr.
<b>OA.CRJ237</b>	Criminal/Constitutional Law	3 Cr.	<b>OA.MUS100</b>	Music Appreciation	3 Cr.
<b>OA.FIN180</b>	Intro to Investments	3 Cr.	<b>OA.MUS202</b>	World Music	3 Cr.
<b>OA.EDU245</b>	Exceptional Learner	3 Cr.	<b>OA.PEH178</b>	Sports Diversity	3 Cr.
<b>OA.ENG108</b>	Comp II: Technical Writing	3 Cr.	<b>OA.PHI101</b>	Intro to Philosophy	3 Cr.
<b>OA.GEO111</b>	Intro to Geography	3 Cr.	<b>OA.PHI105</b>	Intro to Ethics	3 Cr.
<b>OA.GEO124</b>	Regional Geography	3 Cr.	<b>OA.PHI111</b>	Basic Reasoning	3 Cr.
<b>OA.GLS200</b>	Country Study	3 Cr.	<b>OA.POL121</b>	International Relations	3 Cr.
<b>OA.HIS201</b>	Iowa History	3 Cr.	<b>OA.POL171</b>	Intro to Public Administration	3 Cr.
<b>OA.HIS257</b>	African American History	3 Cr.	<b>OA.PSY121</b>	Developmental Psychology	3 Cr.
<b>OA.HIS266</b>	The Civil War	3 Cr.	<b>OA.PSY241</b>	Abnormal Psychology	3 Cr.
<b>OA.HUM116</b>	Encounters in Humanities	3 Cr.	<b>OA.PSY251</b>	Social Psychology	3 Cr.
<b>OA.HSC114</b>	Medical Terminology	3 Cr.	<b>OA.PSY261</b>	Human Sexuality	3 Cr.
<b>OA.HSV109</b>	Intro to Human Services	3 Cr.	<b>OA.REL101</b>	Survey of World Religions	3 Cr.
<b>OA.HSV135</b>	Gender Studies	3 Cr.	<b>OA.SOC115</b>	Social Problems	3 Cr.
<b>OA.JOU110</b>	Intro to Mass Media	3 Cr.	<b>OA.SOC120</b>	Marriage and Family	3 Cr.
<b>OA.LIT105</b>	Children's Literature	3 Cr.	<b>OA.SOC200</b>	Minority Group Relations	3 Cr.
<b>OA.LIT166</b>	Science Fiction	3 Cr.	<b>OA.SOC282</b>	Environmental Sociology	3 Cr.
<b>OA.LIT185</b>	Contemporary Literature	3 Cr.	<b>OA.SOC225</b>	Social Gerontology	4 Cr.
			<b>OA.SPC122</b>	Interpersonal Communication	3 Cr.
			<b>OA.POL125</b>	Comparative Gov't and Politics	3 Cr.

### 2025-2026 Approved Face-to-Face Courses

**Revised 10.31.24**

Course #	Course Name	Credits
<b>DM.MAT219</b>	Calculus III	4 Cr.
<b>DM.MAT227</b>	Differential Equations w/Laplace	4 Cr.

# Ankeny Course Catalog

## English Language Arts (ELA)

### 9th Grade ELA Requirement

**ELA101S1: English 9 S1**

**ELA101S2: English 9 S2**

SV, NV

**2 Credits, Full Year**

**Grade 9**

**Prerequisites: None**

Students in English 9 will engage in a rigorous, skill-based curriculum integrating all areas of literacy: reading, writing, speaking, listening, and viewing. Students will analyze, synthesize, and evaluate to create and extend meaning in a variety of fiction and non-fiction texts. Writing skills include organizing ideas, incorporating textual evidence with appropriate documentation, utilizing transitions, and continually revising and improving the written product. Additionally, students will develop their skills as critical thinkers, readers, and writers through the research process. Speaking, viewing, and listening skills will be developed and improved continually throughout the year in all areas of study. Additional emphasis will be placed on word origins and vocabulary words in context.

### 10th Grade ELA Requirement

Select English 10 (ELA201) **OR** IDEASS (ELA202)

**ELA201S1: English 10 S1**

**ELA201S2: English 10 S2**

AHS, CHS

**2 Credits, Full Year**

**Grade 10**

**Prerequisites: English 9 (ELA101)**

Students will integrate reading, writing, speaking, viewing, and listening with a focus on persuasion and constructing an argument. Students will engage in group communication activities and explore world literature. Each unit will include optional extended learning opportunities.

**ELA202S1: English 10/World History (IDEASS) S1**

**ELA202S2: English 10/World History (IDEASS) S2**

AHS, CHS

**2 English + 2 Social Studies Credits, Full Year**

**Grade 10**

**Prerequisites: English 9 (ELA101)**

This year-long course combines the features of both World History and English 10 by incorporating both social studies and language arts within one two-period block class with an emphasis on the interrelation of the two curricular areas. When possible, one test or project will be completed to measure a student's understanding of the materials presented in each unit. Upon successful completion of the course, students will receive two social studies credits and two language arts credits.

### 11th Grade ELA Requirement

Select English 11 (ELA301) **OR** AP Literature & Composition (ELA601)

**ELA301S1: English 11 S1**

**ELA301S2: English 11 S2**

AHS, CHS

**2 Credits, Full Year**

**Grade 11**

**Prerequisites: English 10 (ELA201) or IDEASS (ELA202)**

Students will integrate reading, writing, speaking, viewing, and listening with a focus on evaluation and analysis. Students will engage in platform speaking activities and explore American literature.

**ELA601S1: AP Literature & Composition S1****ELA601S2: AP Literature & Composition S2**

AHS, CHS

**2 Credits, Full Year****Grades 11-12****Recommended: English 10 (ELA201) or IDEASS (ELA202)****\*DMACC LIT101 (3 Credits), LIT111 (3 Credits)**

Students will utilize advanced skills in reading, writing, speaking, viewing, and listening with an emphasis on platform speaking activities and an understanding of the forms of imaginative literature: short story, drama, poetry, and novels. Attention is given to personal and social values as they appear in selected reading. Basic critical approaches are emphasized, and a broad range of authors from a variety of cultural and ethnic groups and a wide span of historical periods is presented. At the conclusion of this course students will be prepared and encouraged to take the corresponding AP exam as a summative assessment of their achievement.

**12th Grade ELA Requirement**

Select one of the following options:

- Composition 12 (ELA401) **AND** Literature 12 (ELA402) **OR** British Literature (ELA403)
- Communication Skills (ELA501) **AND** Literature 12 (ELA402) **OR** British Literature (ELA403)
- AP Language & Composition (ELA602)

**ELA401: Composition 12**

AHS, CHS

**1 Credit, Semester****Grade 12****Prerequisites: None**

Students will engage in writing and communication processes. Types of writing included will be narrative, technical, informational, and persuasive. Students will review writing fundamentals, enrich their vocabulary, develop and polish their writing styles, and participate in and respond to a variety of speaking experiences.

**ELA402: Literature 12**

AHS, CHS

**1 Credit, Semester****Grade 12****Prerequisites: None**

Students will read poetry, plays, short stories, and novels representing a diversity of genres, cultures, and time periods and will respond to these works through a variety of writing, speaking, and discussion skills and tasks.

**ELA403: British Literature**

AHS, CHS

**1 Credit, Semester****Grade 12****Prerequisites: None**

Students will read poetry, plays, short stories, and novels representing the works of British authors and will respond to these works through a variety of writing, speaking, and discussion skills and tasks.

**ELA501: Communication Skills**

AHS, CHS

**1 Credit, Semester****Grade 12****Recommended: English 11 (ELA301) or AP Lit (ELA601)****\*DMACC COM703 (3 Credits)**

Students will learn to utilize reading, writing, speaking, and listening as methods of exploring and evaluating technological advances in trades and industry. Students will adapt communication for different audiences, evaluate industry-related literature and compose basic business writing. This course is a class that is required for many vocational technical programs at DMACC including, but not limited to, Automotive Technology and Integrated Manufacturing Technology. Course does not satisfy NCAA athlete eligibility requirement.

**ELA602S1: AP Language & Composition S1****ELA602S2: AP Language & Composition S2**

AHS, CHS

**2 Credits, Full Year****Grade 12****Recommended: English 11 (ELA301) or AP Lit (ELA601)\*****\*DMACC ENG105 (3 Credits), ENG106 (3 Credits)**

Students will construct and revise a series of writings: formal and informal, narrative, expository, argumentative, and persuasive. Students will practice effective reading and research techniques, and explore structure, style, and documentation. At the conclusion of this course students will be prepared and encouraged to take the corresponding AP exam as a summative assessment of their achievement.

**\*DMACC Enrollment Requirements:** The first semester will serve as a prerequisite for the second semester. Students must meet the prerequisite requirements as specified by DMACC.

## ELA Electives

### **ELA210: Acting I**

**AHS, CHS**

**Prerequisites: None**

Students will develop proficiency in acting through body movement, speaking for performance, and believable characterization. Students will also study plays, presentations from selected plays, and stagecraft techniques though the emphasis of the course will be on acting.

**1 Credit, Semester  
Grades 10-12**

### **ELA211: Acting II**

**AHS**

**Prerequisites: Acting I (ELA210)**

This course is a continuation of Acting I and will focus on techniques, styles, and genres. It will also focus on the many behind the scenes aspects of theater. Students will analyze and interpret modern theatrical works that span various styles and create their own scripts.

**1 Credit, Semester  
Grades 10-12**

### **ELA503: Introduction to Theatre**

**CHS**

**Recommended: Acting I (ELA210)**

Students will explore the elements and techniques of theater with an emphasis on acting and directing in this college level, advanced theater class. Attendance at dramatic productions is encouraged and participation in the fall or spring play, depending on the semester of enrollment, is mandatory. Other aspects of the class will include script analysis, acting technique, aspects of production design, and the responsibilities of a director.

**1 Credit, Semester  
Grades 10-12  
\*DMACC DRA101 (3 Credits)**

### **ELA212: Journalism**

**AHS, CHS**

**Prerequisites: None**

Students will be introduced to techniques involved in writing a news story, a feature story, a sports story, an editorial, and headlines. They will also cover photography, journalism ethics, layout and design and editing. Journalism students may also contribute to the in-school paper, The Talon or The Jaguar. This class provides students with basics necessary to produce a school newspaper.

**1 Credit, Semester  
Grades 10-12**

### **ELA213S1: Yearbook S1**

### **ELA213S2: Yearbook S2**

**AHS, CHS**

**Prerequisites: None**

Students will develop knowledge and skill in planning, designing, writing, and selling the school yearbook. The class will utilize many resource personnel from the yearbook publishing industry. The course will take the student from the yearbook as an idea to the yearbook as a complete and actual book. The major part of the class will deal with layout design and writing copy. The student will be required to devote some time outside of the classroom to work on the school annual. Those students who elect to take yearbook for the first semester must also register for the second semester. If course demand exceeds space available in the class, an application process may be required. This course may be repeated for credit.

**2 Credits, Full Year  
Grades 10-12**

**ELA214: Advanced Journalism****1 Credit, Semester****AHS, CHS****Grades 11-12*****Prerequisites: Journalism (ELA212) or teacher approval***

Students will develop the skills and knowledge necessary to produce newsworthy content on real topics, for real audiences. While this course will provide students with extended exposure on how to produce authentic work through reporting, writing, interviewing, editing, photography, graphics, design, and business, to name a few, they will also have the opportunity to be published on a variety of platforms (print, web, social media, podcast, broadcast). They will have the opportunity to participate in the Quill and Scroll Honor Society for student journalists, participate in professional journalism organizations like the Iowa High School Press Association and the Journalism Education Association, as well as earn Gold Cord recognition, obtain award and scholarship opportunities, and achieve active participation in a student-run publication and apply for editorial staff roles. This course is a semester-long elective credit that can be repeated.

**ELA502: Fundamentals of Oral Communication****1 Credit, Semester****AHS, CHS****Grades 11-12*****Recommended: English 11 (ELA301) or AP Lit (ELA601)*****\*DMACC SPC101 (3 Credits)**

Students will explore the fundamentals of speech communication through the study and practice of interpersonal and small group communication and the composition and delivery of speeches in this college level course. Perception, language, listening, nonverbal communication, and how cultural and gender diversity affect the communication process are studied in depth.

**ELA504: Creative Writing****1 Credit, Semester****AHS, CHS****Grades 10-12*****Prerequisites: None*****\*DMACC ENG221 (3 Credits)**

Students will be writing original poetry, fiction, and creative nonfiction as an introduction to the art of creative writing. Students will read the work of professional writers and apply the principles of imaginative writing to their own work.

**ELA505: Introduction to Film****1 Credit, Semester****AHS, CHS****Grades 10-12*****Prerequisites: None*****\*DMACC HUM120 (3 Credits)**

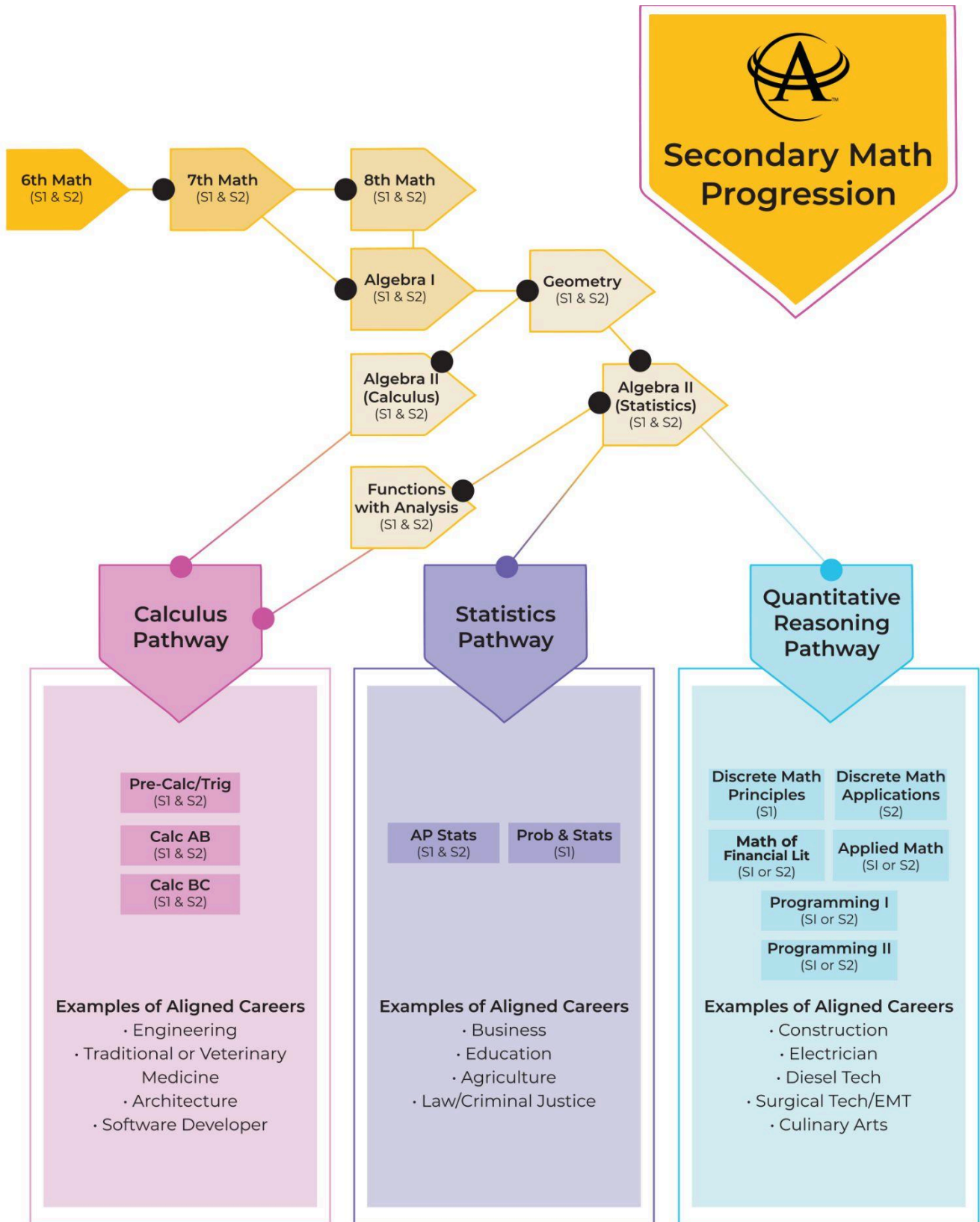
Students will focus on pre-1980 films to study the art of film, film interpretation, and the interaction of film and print literature. A key focus will be critical viewing and analysis of film techniques. Besides watching films, students will also be doing a fair share of discussing, researching, reading, and writing about the concepts involved in film. Since this class does offer DMACC credit, students do need to be prepared for the workload that accompanies a college course.

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**ELA Courses for Qualified Individuals**


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**ELA015: Focus Literacy****DI.ELA100: Direct Instruction Language Arts 9****ELA016: Focus Writing****DI.ELA200: Direct Instruction Language Arts 10****ELA017: Elements of Literacy****DI.ELA300: Direct Instruction Language Arts 11****DI.ELA400: Direct Instruction Language Arts 12**



# Math (MAT)

## Math Credit Requirements

Select **six credits** of math to include Algebra II (MAT301) at a minimum.

College preparatory courses should include Algebra I (MAT101), Geometry (MAT201), and Algebra II (MAT301).

### **MAT101S1: Algebra I S1**

### **MAT101S2: Algebra I S2**

**SV, NV, AHS, CHS**

**Prerequisites: None**

Algebra I takes an applications-based approach in examining a variety of algebraic concepts and functions. Emphasis is placed on comparing linear, quadratic, and exponential functions using equations, graphs, and tables. Main areas of study include the use of variables, real-life applications, solving equations, graphing, exponents, quadratics, polynomials, and the use of graphing calculators.

**2 Credits, Full Year  
Grades 8-12**

### **MAT201S1: Geometry S1**

### **MAT201S2: Geometry S2**

**SV, NV, AHS, CHS**

**Prerequisites: Algebra I (MAT101)**

Students enrolled in this course will develop many skills including collaboration, problem-solving, visualization, and logical thinking. Students will develop visual skills while investigating properties of triangles, quadrilaterals and other two-dimensional polygons. Logical thought will be developed as students investigate and prove conjectures about lines, angles, triangles, and quadrilaterals. Students will also learn about similar figures to develop a basic understanding of trigonometry. Other areas of study include transformations, congruence, circles, three-dimensional shapes, and probability.

**2 Credits, Full Year  
Grades 9-12**

### **MAT301S1: Algebra II (Stats) S1**

### **MAT301S2: Algebra II (Stats) S2**

**AHS, CHS**

**Prerequisites: Geometry (MAT201)**

This course is a continuation of Algebra I and prepares students for courses in the Statistics and Quantitative Reasoning mathematics pathways. Many topics of algebra will be reviewed and studied in more depth. Some of the topics include types of functions such as polynomial, rational, logarithmic, and exponential. Other topics include inequalities, factoring, solving equations, and simplifying expressions. Students will also begin interpreting categorical and quantitative data, making inferences, and justifying conclusions using data.

**2 Credits, Full Year  
Grades 10-12**

### **MAT303S1: Algebra II (Calc) S1**

### **MAT303S2: Algebra II (Calc) S2**

**SV, NV, AHS, CHS**

**Prerequisites: Geometry (MAT201)**

This course is a continuation of Algebra I. It is the first course in the Calculus mathematics pathway and prepares students for Trigonometry & Pre-Calculus. Many topics of algebra will be reviewed and studied in more depth. Some of the topics include types of functions such as polynomial, rational, logarithmic, exponential, and trigonometric. Other topics include inequalities, factoring, solving equations, and simplifying expressions.

**2 Credits, Full Year  
Grades 9-12**

## Math Electives

### **MAT401S1: Functions with Analysis S1**

### **MAT401S2: Functions with Analysis S2**

AHS, CHS

**2 Credits, Full Year**  
**Grades 10-12**

**Prerequisites: Algebra II (MAT301 or MAT303)**

Functions with Analysis will explore mathematical systems. Students will study various topics including a deeper understanding of right triangle trigonometry and trigonometric functions. Students will investigate algebraic, logarithmic, exponential, and rational functions. Students will develop conceptual understanding of functions including explorations with graphs, tables, equations and solving techniques. Skills learned/practiced in Functions will prepare students for future college courses.

### **MAT402: Discrete Math Principles (formerly Discrete Mathematics - First Semester)**

AHS, CHS

**1 Credit, Semester**  
**Grades 10-12**

**Prerequisites: Algebra II (MAT301 or MAT303)**

Discrete Math is a semester course in practical and quantitative mathematics that begins to explore math topics that have not been covered in the traditional sequence. It is a good option for students who enjoy mathematical thinking and wish to explore those facets of mathematics that will strengthen their quantitative understandings of their environment. Students will explore topics like: problem solving strategies, numeration systems, modulus number systems, apportionment methods and voting methods.

### **MAT403: Probability and Statistics**

AHS, CHS

**1 Credit, Semester**  
**Grades 10-12**

**Prerequisites: Algebra II (MAT301 or MAT303)**

The purpose of this class is to introduce the student to the thought processes behind the fundamental concepts of probability and statistics. Students will investigate methods of gathering data, summarizing data graphically and numerically, computing probabilities, and creating simulations to make inferences about a population based on a sample.

### **MAT404: Math of Financial Literacy**

AHS, CHS

**1 Credit, Semester**  
**Grades 10-12**

**Prerequisites: Algebra II (MAT301 or MAT303)**

This is a one semester course that is offered to students after completion of core coursework in math. It will allow the students to continue to learn and apply mathematical concepts that are used on a daily basis in the real world. It will focus on an understanding of how math is used in everyday situations that include investments, insurance, annuities, mortgages, and many others. The students will acquire the knowledge base and confidence that they will need when encountering decisions like financing a college education or purchasing a car or home. An additional goal would be for the students to learn how a strong mathematical sense can allow them to understand how debt works and can accumulate. Effectively navigating debt and its pitfalls can help lead to a debt-free future.

### **MAT405: Discrete Math Applications (formerly Discrete Mathematics - Second Semester)**

AHS, CHS

**1 Credit, Semester**  
**Grades 10-12**

**Prerequisites: Algebra II (MAT301 or MAT303)**

Students will continue to implement strategies and procedures from Discrete Math Principles to explore ideas that help students think theoretically. This course will explore the mathematical practices behind set theory, probability, graph theory, and logic/argument theory.



**MAT406: Applied Math****AHS, CHS****Recommended: Algebra I (MAT101)**

Students will prepare for a career in a technical field such as: construction, mechanical, electrician, culinary, or other options. This class is a requirement at DMACC for several vocational technical programs at DMACC including, but not limited to, Automotive Technology, Information Technology Network Administrator (ITNA) and Integrated Manufacturing Technology. Topics covered include fundamental operations with whole numbers, fractions, decimals and signed numbers; calculator-free computations; percents; geometric figures and basic constructions; area and volume formulas; English/Metric systems; measurements; and the interpretation of graphs and charts.

**1 Credit, Semester****Grades 10-12****\*DMACC MAT772 (3 Credits)****MAT501S1: Trigonometry/Pre-Calculus S1****MAT501S2: Trigonometry/Pre-Calculus S2****AHS, CHS****Prerequisites: Algebra II (MAT303) OR Functions with Analysis (MAT401) and DMACC enrollment requirements**

There are two themes explored throughout this course. During the first semester students will be studying Trigonometry. Topics include: periodic functions and right triangle problems, applications of trigonometric and circular functions, trigonometric functions properties, and identities. Upon successful completion of first semester Trigonometry, students will take Pre-Calculus. Some of these topics include: polynomial functions, rational functions, logarithmic and exponential functions, conic sections, matrices, and polar equations. Students must meet the prerequisite requirements as specified by DMACC. Students must earn a B- or higher in Algebra II Calc or Functions with Analysis OR earn a 61 or higher on the ALEKS entrance exam.

**2 Credits, Full Year****Grades 10-12****\*DMACC MAT129 (5 Credits)****MAT601S1: AP Calculus AB S1****MAT601S2: AP Calculus AB S2****AHS, CHS****Prerequisites: Trigonometry/Pre-Calculus (MAT501)**

Students will prepare for the College Board AP Calculus AB Exam through the exploration of the concepts outlined by the College Board's AP Calculus AB Course Skills and Unit Planning Guide. Students work toward proficiency in the topics of limits, differentiation and integration. Course standards align with the units as outlined by AP Calculus AB Course and Exam Description. Upon successful completion of both semesters, students are awarded 5 credits at DMACC and are encouraged to take the AP Calculus AB exam.

**2 Credits, Full Year****Grades 10-12****\*DMACC MAT211 (5 Credits)****MAT602S1: AP Calculus BC S1****MAT602S2: AP Calculus BC S2****AHS, CHS****Prerequisites: AP Calculus AB (MAT601)**

Students will prepare for the College Board AP Calculus BC Exam through the exploration of the concepts outlined by the College Board's AP Calculus BC Course Skills and Unit Planning Guide. Students work toward proficiency in the the topics of applications of integration, integration techniques, infinite sequences, series, Taylor and Maclaurin series. Course standards align with the units as outlined by AP Calculus BC Course and Exam Description. Upon successful completion of both semesters, students are awarded 5 credits at DMACC and are encouraged to take the AP Calculus BC exam.

**2 Credits, Full Year****Grades 11-12****\*DMACC MAT217 (5 Credits)**

**MAT603S1: AP Statistics S1****MAT603S2: AP Statistics S2****AHS, CHS*****Prerequisites: Algebra II (MAT301 or MAT303)***

Students will prepare for the College Board AP Statistics Exam through the exploration of the concepts outlined by the College Board's AP Statistics Course Skills and Unit Planning Guide. Course standards align with the Units as outlined by AP Statistics Course and Exam Description. Students work toward proficiency in the following: (1) select methods for collecting and/or analyzing data for statistical inference, (2) describe patterns, trends, associations, and relationships in data, (3) explore random phenomena and (4) develop an explanation or justify a conclusion using evidence from data, definitions, or statistical inference.

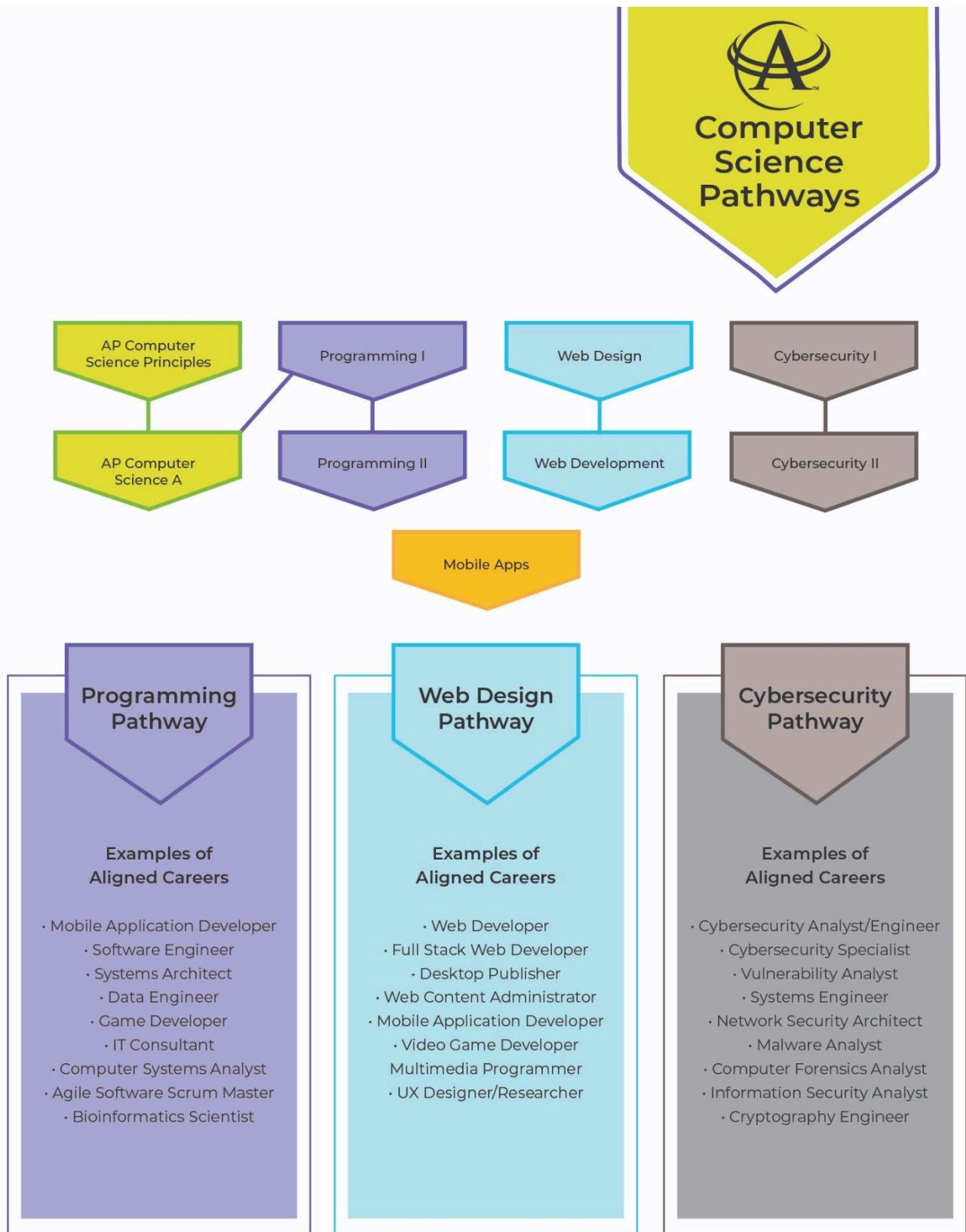
**2 Credits, Full Year****Grades 10-12****\*DMACC MAT156 (3 Credits)**

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## **Math Courses for Qualified Individuals**

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**MAT015: Focus Math****DI.MAT100: Direct Instruction Math 9****DI.MAT200: Direct Instruction Math 10****DI.MAT300: Direct Instruction Math 11****DI.MAT400: Direct Instruction Math 12**



# Information Solutions (CPSCI)

## Computer Science Electives

Students considering careers in information technology, web design, cyber defense, computer science, or engineering would benefit from the courses in this pathway. See your counselor for more information.

Note: Programming I and II can be taken for elective math credit.

### **CPSCI101S1: AP Computer Science Principles S1**

**2 Credits, Full Year**

### **CPSCI101S2: AP Computer Science Principles S2**

**Grades 9-12**

**NV, SV, AHS, CHS**

**Prerequisites: Algebra I (MAT101)**

Students will design and evaluate solutions to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Topics covered include creative development, data, algorithms and programming, computer systems and networks, and the impact of computing. Students will work on their own and as part of a team to creatively address real-world issues using the tools and processes of computation.

### **CPSCI110SI: Programming I**

**1 Credit, Semester**

**NV, SV, AHS, CHS**

**Grades 9-12**

**Prerequisites: Algebra I (MAT101)**

Students will cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. Topics covered include graphics, console interaction, conditionals, looping, functions, and exceptions. Students will engage in hands-on work to design, write, and test computer programs that solve problems or accomplish tasks.

### **CPSCI120SI: Programming II**

**1 Credit, Semester**

**NV, SV, AHS, CHS**

**Grades 9-12**

**Prerequisites: Programming I (CPSCI110) or AP Computer Science Principles (CPSCI101)**

Students will cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. Topics covered include strings, creating, altering, and extending data structures, and objects. Students will engage in hands-on work to design, write, and test computer programs that solve problems or accomplish tasks.

### **CPSCI130S1: AP Computer Science A S1**

**2 Credits, Full Year**

### **CPSCI130S2: AP Computer Science A S2**

**Grades 11-12**

**AHS, CHS**

**Prerequisites: Programming I (CPSCI110) or AP Computer Science Principles (CPSCI101)**

Students will cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures using Java. Topics covered include primitive types, using objects, Boolean expressions and if statements, iteration, writing classes, arrays, ArrayList, 2D arrays, inheritance, and recursion. Students will engage in hands-on work to design, write, and test computer programs that solve problems or accomplish tasks.

**CPSCI201: Web Design****NV, SV, AHS, CHS****Prerequisites: Algebra I (MAT101)**

Students will learn how to create their own live homepage using HTML and CSS to serve as a portfolio of their creations. Topics covered include HTML, CSS, Bootstrap, and user interfaces. Students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own professional multi-page mobile responsive website.

**1 Credit, Semester  
Grades 9-12****CPSCI210S1: Web Development S1****CPSCI210S2: Web Development S2****AHS, CHS****Prerequisites: Web Design (CPSCI201)**

Students will build and maintain a website in a project-based learning environment. Topics covered include HTML, CSS, Javascript in HTML, Javascript Libraries, storing and collecting data, and how to build and maintain a website. Students will apply the basic elements of web development, such as web hosting, file organization, and incorporating Javascript into HTML files to create a website.

**2 Credits, Full Year  
Grades 10-12****CPSCI301: Cybersecurity I****AHS, CHS****Prerequisites: Algebra I (MAT101)**

Students will modify and run text-based programs in HTML, JavaScript, and SQL, simulate shell commands, and also participate in simulated cyber-attacks on safe sites in order to learn how to mitigate cyber-attacks. Topics covered include cybersecurity, digital citizenship, cyber hygiene, programming fundamentals, cryptography, system administration, software security, networking fundamentals, and IT infrastructure. Students will engage in short video tutorials, example programs, quizzes, simulations, programming exercises, and free-response prompts.

**1 Credit, Semester  
Grades 10-12****CPSCI310S1: Cybersecurity II S1****CPSCI310S2: Cybersecurity II S2****AHS, CHS****Prerequisites: Cybersecurity I (CPSCI301)**

Students will modify and run text-based programs in HTML, JavaScript, and SQL, simulate shell commands and also participate in simulated cyber-attacks on safe sites in order to learn how to mitigate cyber-attacks. Topics covered include advanced cryptography, advanced networking, cyber defense, and risk management. Students will modify existing code and run it in the browser, investigate cyber-related topics, reflect on them and discuss them, create digital presentations, and engage in in-person collaborative exercises with classmates.

**2 Credits, Full Year  
Grades 11-12****CPSCI401S1: Mobile Apps S1****CPSCI401S2: Mobile Apps S2****AHS, CHS****Prerequisites: Web Development (CPSCI201)**

Students will design and build applications to run on their own smartphones and will use the latest tools and technologies available for mobile app development. Topics covered included components, stylesheet, buttons, text boxes, advanced layouts, images, events and states, multiple screens, conditionals, collections of data, ScrollView, and designing user interfaces. Students will use an open-source toolchain to create personalized apps, create digital presentations, and engage in in-person collaborative exercises with classmates.

**2 Credits, Full Year  
Grades 11-12**

# Science (SCI)

## 9-12 Science Requirements

All students will successfully complete 3 years of science education to include the standard areas of earth/space, biology, chemistry and physics. Students may select from a variety of ways to fulfill the necessary district, state and college entry requirements. All science courses in the curriculum meet the state standards and prepare students for college and careers. Students should select science courses based on their career and educational goals.

### Science Courses

**Note:** All courses are aligned to the state science standards and all students will be prepared to engage in any Ankeny science course, including an Advanced Placement (AP) science course. The Enriched courses provide students the opportunity to pursue their interest in the sciences (Life, Space or Physical) in alignment with the career and educational goals outlined in their 4-year plan. If a 4-year plan includes enrolling in either AP Chemistry or AP Physics, consideration should be given to enrolling in Enriched Chemistry or Enriched Physics to ensure adequate preparation for the AP Exam. Students must take a Physics and Chemistry course to meet graduation requirements.

#### **SCI101S1: Earth & Space S1**

#### **SCI101S2: Earth & Space S2**

SV, NV

**Prerequisites: None**

Students will explore how the Earth works as a system, how the Earth connects to the universe, and how both have changed and will continue to change over time. As a part of this course students will engage collaboratively through evidence-based inquiry processes and scientific discourse to become responsible, scientifically literate citizens. This course meets graduation requirements and the requirements of a 4-year Regents university.

**2 Credits, Full Year  
Grade 9**

#### **SCI201S1: Biology S1**

#### **SCI201S2: Biology S2**

AHS, CHS

**Prerequisites: Earth & Space (SCI101) or Enriched Earth & Space (SCI102)**

Students will engage in science practices to understand and apply principles related to homeostasis, ecosystems, heredity, and evolution. Topics will be investigated using an inquiry approach to problem solving through lab experiences, engineering design processes, and mathematical modeling. Students will engage in scientific discourse to share, confirm, and challenge ideas. This course meets graduation requirements and the requirements of a 4-year Regents university.

**2 Credits, Full Year  
Grades 10-12**

#### **SCI304: Chemistry**

AHS, CHS

**Prerequisites: Biology (SCI201) or Enriched Biology (SCI202)**

Students will develop an understanding of how the structure of a substance influences its physical and chemical properties. Topics will be investigated using an inquiry approach to problem solving, through lab experiences, engineering design processes, and mathematical modeling. Students will engage in scientific discourse to share, confirm, and challenge ideas. This course meets graduation requirements and the requirements of a 4-year Regents university.

**1 Credit, Semester  
Grades 10-12**

**SCI305: Physics**

AHS, CHS

**1 Credit, Semester****Grades 10-12****Prerequisites: Biology (SCI201) or Enriched Biology (SCI202)**

Students will develop an understanding of the physical world. Topics will be investigated using an inquiry approach to problem solving through lab experiences, engineering design processes, and mathematical modeling. Students will engage in science discourse to share, confirm, and challenge ideas. This course meets graduation requirements and the requirements of a 4-year Regents university.

**SCI102S1: Enriched Earth & Space S1****SCI102S2: Enriched Earth & Space S2**

SV, NV

**2 Credits, Full Year****Grade 9****Prerequisites: None**

Students will engage in in-depth explorations of how the Earth works as a system, how the Earth connects to the universe, and how both have changed and will continue to change over time. In this process, students will engage collaboratively through evidence-based inquiry processes and scientific discourse to become responsible, scientifically literate citizens.

**SCI202S1: Enriched Biology S1****SCI202S2: Enriched Biology S2**

AHS, CHS

**2 Credits, Full Year****Grades 10-12****Prerequisites: Earth & Space (SCI101) or Enriched Earth & Space (SCI102)**

Students will engage in science practices to understand and apply principles related to homeostasis, ecosystems, heredity, and evolution at a level that will prepare them for further study in biology and a possible STEM career. Topics will be investigated using an inquiry approach to problem solving, through lab experiences, engineering design processes, and mathematical modeling. Students will engage in scientific discourse to share, confirm, and challenge ideas.

**SCI302S1: Enriched Chemistry S1****SCI302S2: Enriched Chemistry S2**

AHS, CHS

**2 Credits, Full Year****Grades 10-12****Co/Prerequisites: Biology (SCI201) or Enriched Biology (SCI202). May be taken simultaneously.**

Students will develop an understanding of how the structure of a substance influences its physical and chemical properties. Topics will be investigated using an inquiry approach to problem solving, through lab experiences, engineering design processes, and mathematical modeling. Students will engage in scientific discourse to share, confirm, and challenge ideas.

**SCI401S1: Enriched Physics S1****SCI401S2: Enriched Physics S2**

AHS, CHS

**2 Credits, Full Year****Grades 11-12****Co/Prerequisites: Biology (SCI201) or Enriched Biology (SCI202). May be taken simultaneously.**

Students will conceptually describe motion of objects or particles using forces, work and energy, and momentum, electricity and waves. Students will investigate topics using an inquiry approach to problem solving, through lab experiences, engineering design processes, and mathematical modeling.

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**Science Electives**


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**SCI203: Astronomy**

AHS, CHS

**1 Credit, Semester****Grades 10-12****Prerequisites: Earth & Space (SCI101) or Enriched Earth & Space (SCI102)**

Students will take a comprehensive look at the solar system and our universe. Students will develop an understanding of the historical development of astronomy, formation of Earth and the solar system, the origins of the stars, galaxies and other astronomical phenomena.

**SCI204: Geology****AHS, CHS****1 Credit, Semester****Grades 10-12****Prerequisites: Earth & Space (SCI101) or Enriched Earth & Space (SCI102)**

Students will explore the interactions of Earth's materials including rock and mineral formation and their physical and chemical characteristics. Students will use an inquiry approach in the development of their understanding of practical and essential geology concepts using labs and real world data.

**SCI303S1: Anatomy & Physiology S1****SCI303S2: Anatomy & Physiology S2****AHS, CHS****2 Credits, Full Year****Grades 11-12****Prerequisites: Biology (SCI201) or Enriched Biology (SCI202)**

Students will conduct an in-depth study of the structures and functions of the mammalian body. This course explores interrelationships of body systems with an emphasis on skeletal, muscular, circulatory, respiratory, digestive, integumentary, nervous, and endocrine systems. Students will further their science literacy skills through dissection, laboratory experiences, and clinical studies. The material learned in this course can be applied to medical field careers, health and fitness careers, and biological research careers.

**SCI601S1: AP Biology S1****SCI601S2: AP Biology S2****AHS, CHS****2 Credits, Full Year****Grades 11-12****Prerequisites: Biology (SCI201) or Enriched Biology (SCI202) \*DMACC BIO112 (4 Credits), BIO113 (4 Credits) Chemistry (SCI304) or Enriched Chemistry (SCI302)**

AP Biology is a two-semester course designed to be the equivalent of a college-level introductory biology course. It is purposely rigorous and requires good study habits, self-discipline, and time commitment. This course is designed to prepare the student for the AP Biology exam given in May. Topics covered include Biochemistry, Cells, Energetics, Heredity, Molecular Biology, Evolution, Diversity, Plant Structure and Function, and Animal Structure and Function. Students should plan to spend 1-2 hours outside of class for each hour spent in class. It is possible that students may need to complete some lab work outside of class time. At the conclusion of this course students will be prepared and encouraged to take the corresponding AP exam as a summative assessment of their achievement.

**SCI602S1: AP Chemistry S1****SCI602S2: AP Chemistry S2****AHS, CHS****3 Credits, Full Year (Alternating Days)****Grades 11-12****Prerequisites: Chemistry (SCI304) or Enriched Chemistry (SCI302), Algebra II (MAT301 or MAT303)**

AP Chemistry is a two-semester course designed to be the equivalent of a college-level introductory chemistry course. It is purposely rigorous and requires good study habits, self-discipline, and time commitment. This course is designed to prepare the student for the AP Chemistry exam given in May. Some topics included are: atomic theory, chemical bonding, nuclear chemistry, gases, liquids, solids, solutions, reaction types, stoichiometry, equilibrium, kinetics, organic chemistry and thermodynamics. This course may qualify for postsecondary credit. Please see a counselor for more information. At the conclusion of this course students will be prepared and encouraged to take the corresponding AP exam as a summative assessment of their achievement.



**SCI603S1: AP Physics S1****SCI603S2: AP Physics S2**

AHS, CHS

**2 Credits, Full Year****Grade 12*****Prerequisites: Physics (SCI305) or Enriched Physics (SCI401), AP Calculus (MAT601)******AP Calculus may be taken simultaneously.***

This course will prepare students for the AP Physics C exams given in May. Students are assessed separately on two 90-minute AP exams. Students will receive a separate score on each exam. This is a college freshman level course offered as part of the AP Program at ACSD. First semester Mechanics topics include: motion, forces, work, energy, momentum, circular motion, oscillations and gravitation. Second semester Electricity and Magnetism topics include: electrostatics, circuits, magnetic fields and electromagnetism. This course may qualify for postsecondary credit. Please see your counselor for more information. At the conclusion of this course students will be prepared and encouraged to take the corresponding AP exam as a summative assessment of their achievement.

**SCI604S1: AP Environmental Science S1****SCI604S2: AP Environmental Science S2**

AHS, CHS

**2 Credits, Full Year****Grades 11-12*****Prerequisites: Biology (SCI201) or Enriched Biology (SCI202), Chemistry (SCI301) or******Enriched Chemistry (SCI302)***

AP Environmental Science is a two-semester course designed to be the equivalent of a college-level introductory environmental science course. It is interdisciplinary, encompassing topics related to biology, chemistry, geology, and economics. Major themes include sustainability, ecology, energy, and pollution. The goal is to help students understand processes and interrelationships within the natural world and to identify and analyze environmental problems. As a college-level class, it requires good study habits, self-discipline, and time commitment. This course is designed to prepare students for the AP Environmental Science exam given in May. Students must take and pass this exam to have a chance to earn college credit for the course.

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## Science Courses for Qualified Individuals

**DI.SCI100: Direct Instruction Science 9****DI.SCI200: Direct Instruction Science 10****DI.SCI300: Direct Instruction Science 11****DI.SCI400: Direct Instruction Science 12**

# Social Studies (SST)

## 9th Grade Social Studies Requirement

**SST101S1: 9th World Cultures S1**

**SST101S2: 9th World Cultures S2**

SV, NV

**Prerequisites: None**

Students will comprehend interactions between various groups of people and physical & human characteristics to understand the positives & negatives of globalization in an ever-changing global world.

**2 Credits, Full Year  
Grade 9**

**SST103S1: AP Human Geography S1**

**SST103S2: AP Human Geography S2**

AHS, CHS

**Prerequisites: None**

AP Human Geography is an introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes.

**2 Credits, Full Year  
Grade 9**

## 10th Grade Social Studies Requirement

Select World History (SST201) **OR** IDEASS (ELA202) **OR** AP European History (SST602)

**SST201S1: World History S1**

**SST201S2: World History S2**

AHS, CHS

**Prerequisites: None**

Students will gain a broad understanding of major world events and trends throughout history by analyzing governments, economic systems, geographic factors, and developing historical inquiry skills such as determining cause and effect relationships, analyzing change and continuity, justifying arguments, and evaluating a variety of historical sources.

**2 Credits, Full Year  
Grade 10**

**ELA202S1: English 10/World History (IDEASS) S1**

**ELA202S2: English 10/World History (IDEASS) S2**

AHS, CHS

**Prerequisites: English 9 (ELA101)**

This year-long course combines the features of both Western Civilizations and English 10 by incorporating both social studies and language arts within one two-period block class with an emphasis on the interrelation of the two curricular areas. When possible, one test or project will be completed to measure a student's understanding of the materials presented in each unit. Upon successful completion of the course, students will receive two social studies credits and two language arts credits.

**2 English + 2 Social Studies Credits, Full Year  
Grade 10**

**SST602S1: AP European History S1**

**SST602S2: AP European History S2**

AHS, CHS

**Prerequisites: English 9 (ELA101), World Cultures (SST101)**

This course introduces students to the intellectual, cultural, political, diplomatic, social, and economic developments that played a fundamental role in shaping European history. Students gain a context for understanding the development of contemporary institutions, the role of continuity and change in present day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. This college-level course follows the guidelines for AP European history and students will take the AP Exam to earn college credit.

**2 Credits, Full Year  
Grade 10**

## 11th Grade Social Studies Requirement

Select United States History (SST301) **OR** AP United States History (SST601)

### **SST301S1: United States History S1**

### **SST301S2: United States History S2**

**AHS, CHS**

**Prerequisites: None**

Students will demonstrate an understanding of population movements; change, continuity, and context; historical identity; development of the national economy; cause and effect of historical events; and analyze and critique primary and secondary sources.

**2 Credits, Full Year  
Grade 11**

### **SST601S1: AP United States History S1**

### **SST601S2: AP United States History S2**

**AHS, CHS**

**World History (SST201), IDEASS (ELA202), or AP European History (SST602)**

AP United States History will be taken instead of the required United States History course. This college-level course covers United States history in its entirety. Class activities will heavily involve reading, writing, discussion and critical thinking exercises of topics in the subject area. This course may qualify for postsecondary credit. Please see a counselor for more information.

**2 Credits, Full Year  
Grade 11**

## 12th Grade Social Studies Requirement

Select Economics (SST402) **OR** AP Microeconomics (SST603) **OR** AP Macroeconomics (SST604)

**AND** select United States Government (SST401) **OR** AP U.S. Government & Politics (SST605).

### **SST402: Economics**

**AHS, CHS**

**Prerequisites: None**

Economics students will comprehend basic economic concepts, analyze demand and supply in the economy, evaluate how the national economy works and evaluate the keys to financial success. Economics meets the requirement for Financial Literacy.

**1 Credit, Semester  
Grade 12**

### **SST603: AP Microeconomics**

**AHS, CHS**

**Prerequisites: None**

AP Microeconomics is a college-level course that introduces students to the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. At the conclusion of this course students will be prepared and encouraged to take the corresponding AP exam as a summative assessment of their achievement.

**1 Credit, Semester  
Grade 12**

### **SST604: AP Macroeconomics**

**AHS, CHS**

**Prerequisites: None**

AP Macroeconomics is a college-level course that introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. At the conclusion of this course students will be prepared and encouraged to take the corresponding AP exam as a summative assessment of their achievement.

**1 Credit, Semester  
Grade 12**

**SST401: United States Government**  
**AHS, CHS****1 Credit, Semester**  
**Grade 12****Prerequisites: None**

Students will gain a theoretical and practical understanding of government and citizenship by analyzing foundational documents, especially the Constitution, explaining how citizens participate in electing officials and setting public policy and evaluating how the government responds to the needs of its citizens.

**SST605: AP US Government & Politics**  
**AHS, CHS****1 Credit, Semester**  
**Grade 12****Prerequisites: None**

AP US government and politics students will analyze the U.S. Constitution, as well as other foundational documents to explain the interaction between political institutions and political behavior. Students will read and interpret data, develop evidence-based arguments, and engage in an applied civics project

**Social Studies Electives****SST102: Argumentation & Debate**  
**SV, NV, AHS, CHS****1 Credit, Semester**  
**Grades 9-12****Prerequisites: None**

Students will explore argumentation and debate in a variety of subjects such as law, politics, and the news media. Students will assess a variety of arguments, as well as apply research and critical thinking skills to craft their own persuasive arguments. Learning experiences will include analysis of current issues in order to craft written arguments and persuasive essays, presentations, and debates. Writing, discussion, and collaboration with others will play a large role in this class. This course is an elective credit that can be repeated.

**SST304: Sociology I**  
**AHS, CHS****1 Credit, Semester**  
**Grades 11-12****Prerequisites: None**

Sociology is the study of human society. It is concerned with people's relationships, roles, responsibilities and organization. Unit studies include an introduction to sociology, culture, sociological investigation, roles and relationships in groups, deviance, socialization, social classes and race and ethnicity. Class activities are centered on large and small group discussions, simulations, visual aids and guest speakers. Upon completion students should be able to demonstrate knowledge of sociological concepts as they are applied to individuals, groups and societies.

**SST305: Sociology II**  
**CHS****1 Credit, Semester**  
**Grades 11-12****Prerequisites: Sociology I (SST304)**

This course offers a more in-depth and individualized Sociology curriculum. Students will have opportunities to learn about culture, social interaction, socialization, deviance & crime, and inequalities of income, race, & gender. Special attention is paid to topics such as social media, parenting styles, the criminal justice system, and racism/sexism. Students have ample opportunities to learn about topics of their choosing within this framework.

**SST501: Introduction to Sociology**  
**AHS****1 Credit, Semester**  
**Grades 11-12****Recommended: Sociology I (SST304)****\*DMACC SOC110 (3 Credits)**

Introduction to Sociology is the study of human interaction, groups and society. Topics included are culture, socialization, organizations, deviance, inequality, institutions, health, populations, ecology, social change, and research methods. Students will analyze the importance and dimensions of social change in various arenas of society.

**SST306: Why Iowa?****AHS, CHS****Prerequisites: None**

Students will explore the forces that shaped modern Iowa and experience recreational opportunities available in Iowa. Throughout this course, students will explore Iowa culture, history and natural resources.

Additionally, students will have the opportunity to engage in outdoor recreational activities such as fishing, kayaking and cross country skiing. Students will engage in discussions, evaluation and analysis of Iowa history and culture. Students will demonstrate outdoor skills.

**1 Credit, Semester****Grades 11-12****SST303: Psychology****AHS, CHS****Prerequisites: None**

Completion of this course will provide a solid background for future study in psychology and related areas and allow a better understanding of people. The class will focus on the following areas: psychology as a career, mental health, learning, personality, altered states of consciousness, social psychology, biological psychology and application of these ideas to daily life. The class is based heavily on discussion and application.

**1 Credit, Semester****Grades 11-12****SST607: AP Psychology****AHS, CHS****Prerequisites: None**

AP Psychology is taught with the goal of having every student score a 4 or 5 on the AP exam. Intensive study will occur in the following areas: developmental psychology, sensation and perception, learning and memory, intelligence, motivation and emotion, personality, mental disorders and therapy and research techniques. AP Psychology requires a high level of reading skills and critical thinking. The difficulty level will be similar to any college introductory psychology class. At the conclusion of this course students will be prepared and encouraged to take the corresponding AP exam as a summative assessment of their achievement.

**1 Credit, Full Year or Semester****SST606: AP Comparative Government and Politics****AHS****Prerequisites: None**

AP Comparative Government and Politics is an introductory college-level course in comparative government and politics. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students cultivate their understanding of comparative government and politics through analysis of data and text-based sources as they explore topics like power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis.

**1 Credit, Semester****Grades 10-12**


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**Social Studies Courses for Qualified Individuals**


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**DI.SST100: Direct Instruction Social Studies 9****DI.SST200: Direct Instruction Social Studies 10****DI.SST300: Direct Instruction Social Studies 11****DI.SST400: Direct Instruction Social Studies 12**

## Physical Education & Health (PEH)

Students will engage in programming designed to help them improve their fitness levels while being exposed to a variety of fitness and lifetime activities. The program emphasizes personal fitness, team sports and life skills through a variety of activities from which students have an opportunity to choose. Students will use heart rate monitors to understand the valued effects of exercising at appropriate individual levels. Fitness testing will be included each semester to address student needs throughout the year and will help facilitate goal setting and the skills needed to enhance individual health.

### 9th Grade Physical Education & Health Requirements

**Note:** Iowa law and board policy states that students must enroll in PE every semester in which they are enrolled.

**PEH101S1: 9th P.E. S1**

**1 Credit, Full Year (Alternating Days)**

**PEH101S2: 9th P.E. S2**

**Grade 9**

**SV, NV**

**Prerequisites: None**

The student-centered curriculum will provide opportunities to learn basic skills, activities and concepts. The curriculum is designed to promote the development of physical, social, and emotional health in addition to fostering lifestyles that lead to wellness and encourage physical activity over a lifetime. Students are furnished with a locker, padlock, and towel. Students are required to wear a physical education uniform which may be purchased from community vendors.

**PEH203S1: 9th Strength & Conditioning Readiness S1**

**1 Credit, Full Year (Alternating Days)**

**PEH203S2: 9th Strength & Conditioning Readiness S2**

**Grades 9-12**

**SV, NV, AHS, CHS**

**Prerequisites: None**

Students will be exposed to all phases of a complete and comprehensive strength training program which emphasizes functional strength, core stability/strength, flexibility, nutrition, body composition, speed and agility, and injury prevention. Special consideration will be given to progressions of major lifts including proper technique, proper spotting, and additional safety protocols. Students will be tested throughout the semester to monitor progress.

**PEH110S1: 9th P.E.O.P.E.L. P.E. S1**

**1 Credit, Full Year (Alternating Days)**

**PEH110S2: 9th P.E.O.P.E.L. P.E. S2**

**Grade 9**

**SV, NV**

**Prerequisites: Teacher approval**

P.E.O.P.E.L PE is an adapted physical education class. Students work on physical, emotional, and social skills with their peers. Students will participate in a wide variety of activities to gain exposure to health, fitness, and recreation activities. An integral part of P.E.O.P.E.L PE is socialization and interpersonal skill development. Students will engage in a variety of activities such as: team sports, fitness games, lifetime activities, dance, parachute, and other recreational activities.

**PEH151S1: 9th Health S1**

**1 Credit, Full Year (Alternating Days)**

**PEH151S2: 9th Health S2**

**Grade 9**

**SV, NV**

**Prerequisites: None**

Students receive a separate health grade that counts in their GPA at the end of each semester. The health curriculum covers several topics including CPR/First Aid, social/emotional health, substance abuse, human growth and development, and food and nutrition.

## 10-12 Physical Education & Health Requirements

**Note:** Iowa law and board policy state that students must enroll in PE every semester in which they are enrolled.

**PEH201S1: P.E. Wellness S1**

**0.5 Credit, Semester (Alternating Days)**

**PEH201S2: P.E. Wellness S2**

**Grades 10-12**

**PEH202S1: Early Bird P.E. Wellness S1**

**PEH202S2: Early Bird P.E. Wellness S2**

**AHS, CHS**

**Prerequisites: None**

Students will evaluate, monitor, and improve their personal fitness through participation in a variety of lifetime fitness activities. Students will design and implement a personal fitness program in a non-competitive atmosphere. This course offers cardio activities, weight training, and a variety of fitness opportunities.

**PEH203S1: Strength & Conditioning Readiness S1**

**0.5 Credit, Semester (Alternating Days)**

**PEH203S2: Strength & Conditioning Readiness S2**

**Grades 9-12**

**SV, NV, AHS, CHS**

**Prerequisites: None**

Students will be exposed to all phases of a complete and comprehensive strength training program which emphasizes functional strength, core stability/strength, flexibility, nutrition, body composition, speed and agility, and injury prevention. Special consideration will be given to progressions of major lifts including proper technique, proper spotting, and additional safety protocols. Students will be tested throughout the semester to monitor progress.

**PEH204S1: Strength & Conditioning S1**

**1 Credit, Semester**

**PEH204S2: Strength & Conditioning S2**

**Grades 10-12**

**PEH205S1: Early Bird Strength & Conditioning S1**

**PEH205S2: Early Bird Strength & Conditioning S2**

**AHS, CHS**

**Prerequisites: None**

Students will work daily to develop strength, agility, speed, and power. Weight training and running will be regular daily class activities. Students are required to follow a structured training program. Progress will be assessed through pre and post testing.

**PEH206S1: Individual & Dual Activities S1**

**0.5 Credit, Semester (Alternating Days)**

**PEH206S2: Individual & Dual Activities S2**

**Grades 10-12**

**PEH207S1: Early Bird Individual & Dual Activities S1**

**PEH207S2: Early Bird Individual & Dual Activities S2**

**AHS, CHS**

**Prerequisites: None**

Students will evaluate, monitor, and improve their personal fitness through participation in a variety of lifetime activities. In this course the activities will include: Badminton, Pickleball, Table Tennis, Archery, Golf, Roller Blading, Disc Golf, and Rec Games (Bocce, Ladderball, Bags).

**PEH208S1: Team Activities S1**

**0.5 Credit, Semester (Alternating Days)**

**PEH208S2: Team Activities S2**

**Grades 10-12**

**AHS, CHS**

**Prerequisite: None**

Students will evaluate, monitor, and improve their personal fitness through participation in a variety of team activities. In this course students will engage in activities such as ultimate frisbee, volleyball, softball/wiffle ball, floor hockey, basketball, soccer/speedball, flag/aerial football, kickball, tchoukball, and touch rugby.

**PEH210S1: P.E.O.P.E.L. P.E. S1****PEH210S2: P.E.O.P.E.L. P.E. S2****AHS, CHS*****Prerequisite: Instructor approval***

P.E.O.P.E.L PE is an adapted physical education class for students who need differentiated instruction in physical education and peer helpers from the general education population. Students will participate in a wide variety of activities to gain exposure to health, fitness, and recreation activities. An integral part of P.E.O.P.E.L PE is socialization and interpersonal skill development. Students will engage in a variety of activities such as: team sports, fitness games, personal fitness plans, lifetime activities, project adventure activities, dance, Special Olympics, parachute, and other recreational activities.

**0.5 Credit, Semester (Alternating Days)****Grades 10-12****PEH251: Recreational Health****AHS, CHS*****Prerequisites: None***

Students will access valid and reliable information, and they will learn about products and services related to health. They will analyze influences, use interpersonal communication and decision making skills. Students will learn to use self-management skills, set goals and advocate for individual and community health. Daily course.

**1 Credit, Semester****Grades 10-12****PEH301: Coaching and Officiating****AHS, CHS*****Prerequisites: None***

Coaching and Officiating can be an elective course designed for students in grades 10-12. Students will learn rules, regulations, mechanics, professionalism, and conflict resolution skills. Students will be given the opportunity to demonstrate coaching and officiating skills in the following sports: Basketball, Soccer, Baseball, Softball, Football and Volleyball. Students may have the opportunity to achieve coaching and/or officiating certification(s). Students will also participate in physical performance and fitness activities. Daily course.

**1 Credit, Semester****Grades 10-12****PEH302: Exercise Science****AHS, CHS*****Prerequisites: None***

This PE course provides students with a comprehensive introduction to exercise science, covering topics such as anatomy, physiology, biomechanics, nutrition, and exercise programming. Through a combination of classroom instruction and practical exercises, students will develop a strong foundation in exercise science principles and practices. Daily course that can be taken as a PE credit or elective but is not repeatable.

**1 Credit, Semester****Grades 10-12**

## Physical Education & Health Courses for Qualified Individuals

**DI.PEH100: Direct Instruction Health**



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# Applied Sciences (AUT/CON/DRT/ENG)

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## Automotive Technology Electives

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### **AUT201: Consumer Auto** **AHS, CHS**

**1 Credit, Semester**  
**Grades 10-12**

**Prerequisites: None**

In this course, students will get the opportunity to learn about the automotive systems of vehicle frame members, wheels/tires, automotive electrical systems, engine system, and the braking system. Students will learn how to use tools and skills to perform minor services within these automotive systems.

### **AUT301: Auto Mechanics I** **AHS, CHS**

**2 Credits, Semester (Blocked Class)**  
**Grades 10-12**

**Prerequisites: Consumer Automotive (AUT201)**

Students will further develop the minor skills and understandings attained in consumer automotive in this course. Students will learn about brakes, suspension, engine, drivetrain, wheels/tires, automotive electrical, and body work by performing services to these systems. The services in this course will be more in depth than the minor services covered in consumer automotive. Safety, tool usage, automotive system understanding, performing automotive services, and finding necessary automotive information will be covered in this course.

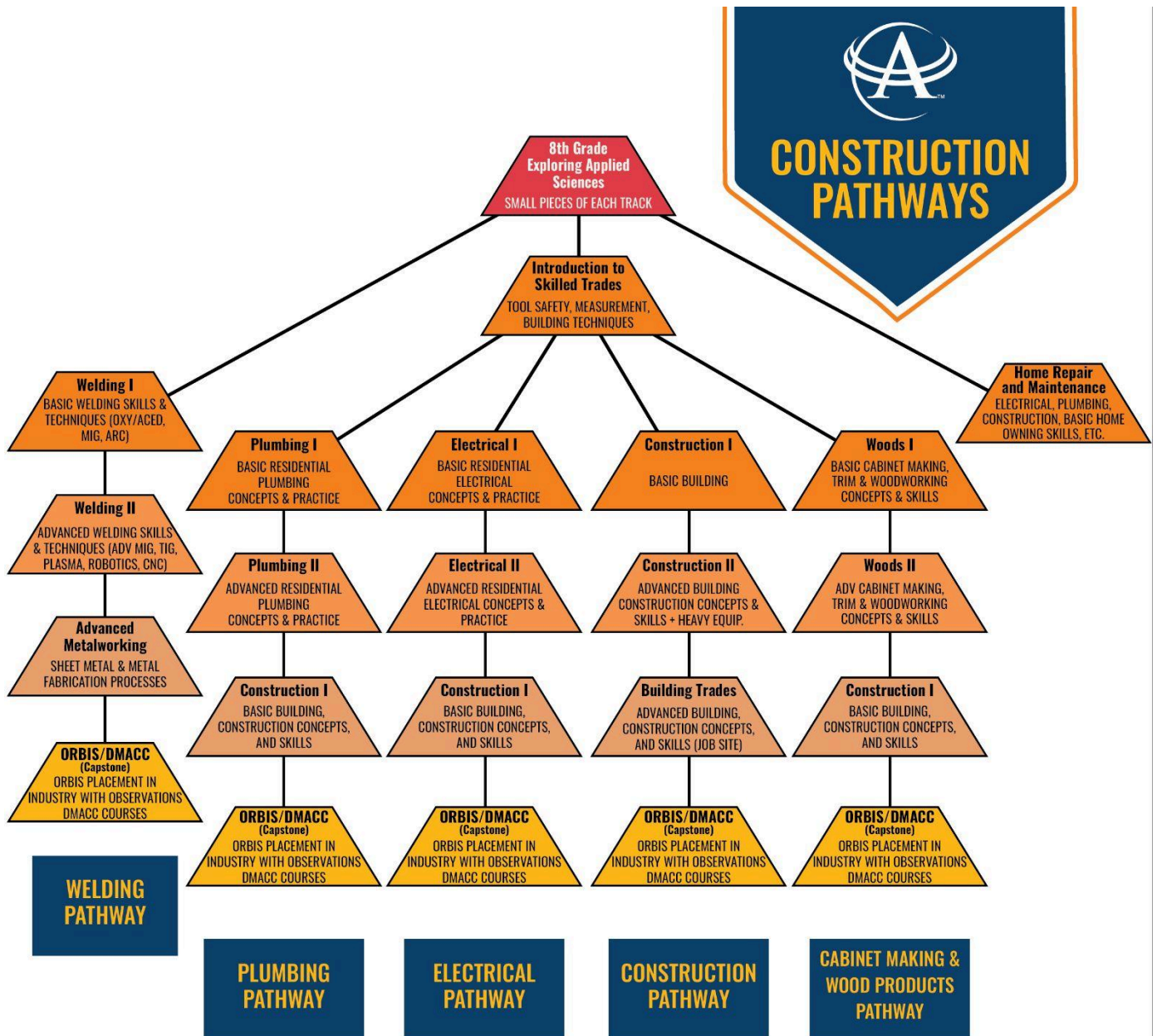
***This course meets two periods per day and students will receive two credits.***

### **AUT401: Auto Mechanics II** **AHS, CHS**

**2 Credits, Spring Semester (Blocked Class)**  
**Grades 11-12**

**Prerequisites: Auto Mechanics I (AUT301)**

In this course, students will diagnose and repair automotive support systems such as brakes, cooling, drive trains, electrical/electronics components, emission, fuel, ignition, steering, suspension, and transmissions. Course topics include the comprehension and use of repair manuals, safety, and employability skills (including shop management and entrepreneurship). ***This course meets two periods per day and students will receive two credits.***



**Some courses will be available in the upcoming school years**

- WELDING II ▪ ADVANCED METALWORKING
- PLUMBING I ▪ PLUMBING II ▪ ELECTRICAL I ▪ ELECTRICAL II

## Construction Electives

### **CON101: Intro to Skilled Trades**

**SV, NV, AHS, CHS**

**Prerequisites: None**

In this course, students will explore the world of skilled trades in this hands-on course. Students will gain essential knowledge in basic hand and power tool usage and safety, empowering you to tackle DIY projects and even in home ownership. Through practical experiences, they'll create a hands-on project and begin cultivating positive work ethics. Students can take this course as a single, standalone course or start their journey to becoming a capable tradesperson.

**1 Credit, Semester  
Grades 9-12**

### **CON102: Home Repair and Maintenance**

**AHS, CHS**

**Prerequisites: None**

This course covers the fundamentals of basic plumbing, electrical work, drywall repair, painting, and tile installation. Through hands-on learning, students will become equipped to handle common household issues confidently. Alongside technical proficiency, the development of a strong work ethic is prioritized, ensuring students are not just a capable homeowner but also a professional committed to excellence. Join this class to build a solid foundation for maintaining and enhancing a home. Students wishing to gain essential skills for homeownership will really enjoy this class.

**1 Credit, Semester  
Grades 10-12**

### **CON103: Woods I**

**AHS, CHS**

**Prerequisites: Intro to Skilled Trades (CON101)**

In this course, students embark on a creative journey to master the fundamentals of woodworking, emphasizing safe operation of both hand and power tools. Through hands-on experiences, they will delve into the art of wood joinery and discover the intricacies of wood finish applications. Crafting a unique wood project will be the canvas for learning. Simultaneously, students will cultivate a strong work ethic, ensuring a well-rounded foundation for woodworking excellence in this engaging and hands-on course.

**1 Credit, Semester  
Grades 10-12**

### **CON203: Woods II**

**AHS, CHS**

**Prerequisites: Woods I (CON103)**

In this course, students embark on a creative journey to master the fundamentals of woodworking, emphasizing safe operation of both hand and power tools. Through hands-on experiences, they will delve into the art of wood joinery and discover the intricacies of wood finish applications. Crafting a unique wood project will be the canvas for learning. Simultaneously, students will cultivate a strong work ethic, ensuring a well-rounded foundation for woodworking excellence in this engaging and hands-on course.

**1 Credit, Semester  
Grades 10-12**

**CON202: Construction I****AHS, CHS****1 Credit, Fall Semester****Grades 10-12*****Prerequisites: Intro to Skilled Trades (CON101)***

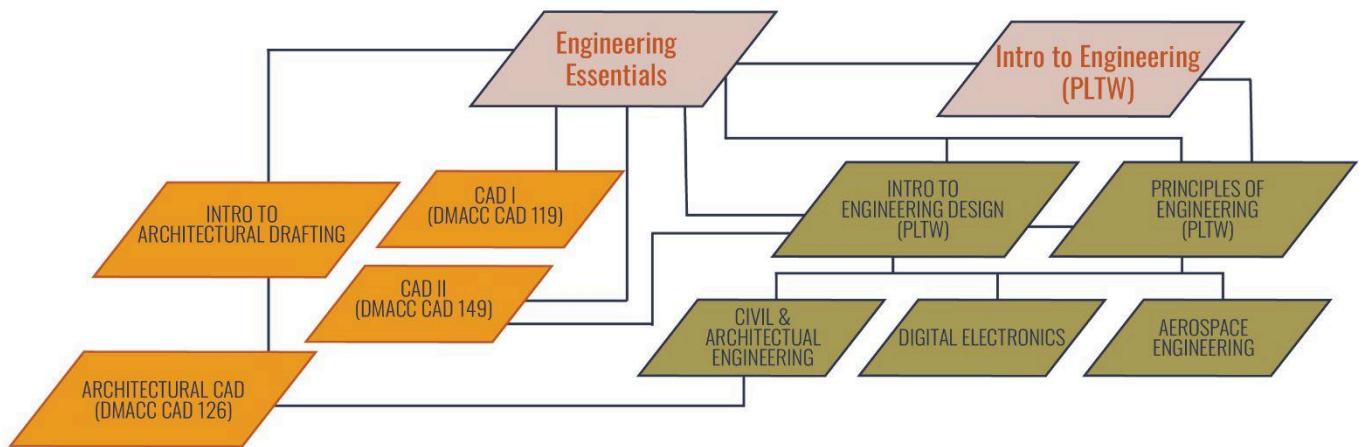
In this course, students will dive into basic construction techniques and safety protocols, building their knowledge of construction tools and equipment. Hands-on learning includes framing, roofing, sheeting, door/window installation, and many other various topics. Beyond honing practical skills, students develop a strong work ethic to thrive in the construction industry. This is a great way to build a solid foundation for your future in this dynamic and engaging field.

**CON302: Construction II****AHS, CHS****1 Credit, Spring Semester****Grades 10-12*****Prerequisites: Construction I (CON202)***

In this course, students will further refine their skills and safety knowledge, building upon the foundation laid in Construction I. With a focus on interior construction, students will delve into insulation, drywall, interior doors, trim, flooring and other vital aspects of interior construction. This hands-on course not only enhances technical expertise but also advances your commitment to a positive work ethic. Elevate your construction proficiency and professionalism in this exciting course.

**CON504: Building Trades****AHS, CHS****2 Credits, Semester****Grades 11-12*****Prerequisites: Construction II (CON302) \*DMACC CON333 (5 Credits), CON336 (1 Credit), CON337 (1 Credit)***

In this course, students will receive practical, hands-on experience in the areas of concrete, masonry and carpentry. Classroom activities focus on current building practices, building terminology, estimating materials, use of construction tools and related mathematics. Laboratory activities include surveying, forming up and pouring a concrete slab and constructing a two or three car garage, as well as finishing a basement. ***This course meets two periods per day and students will receive two credits.***



**DRAFTING PATHWAY**

**Examples of aligned careers**

ARCHITECTURAL DRAFTER ▪ CAD/BIM TECHNICIAN  
 ▪ PROJECT MANAGER/DRAFTER  
 ▪ SPECIFICATION WRITER ▪ ESTIMATOR

**ENGINEERING PATHWAY**

**Examples of aligned careers**

INDUSTRIAL ENGINEER ▪ MECHANICAL ENGINEER  
 ▪ CIVIL ENGINEER ▪ ELECTRICAL ENGINEER  
 ▪ ARCHITECTURAL ENGINEER

**Some courses will be available in the upcoming school years**

## Drafting and Engineering Electives

### **DFT202: Intro to Architectural Drafting**

**AHS, CHS**

**Prerequisites: None**

This course allows students to design houses, interior & exteriors, and site plans. Students will learn about the form and function of building design as well as maximizing space and making structures appealing. The focus of this course is on the conceptual design of residential buildings. This is a great starter course to determine interest level for potential dual credit DMACC classes. Students will create three-dimensional computer-generated renderings, tabletop models, and a portfolio for future use. You may have the opportunity to obtain Revit Certification during this course.

**1 Credit, Semester  
Grades 10-12**

### **DFT503: CAD I**

**AHS, CHS**

**Prerequisites: None**

This course prepares students for careers in engineering, technical illustration, product design, AutoCAD, the industry standard CAD, solving problems, troubleshooting and experimenting with animation. You may have the opportunity to obtain AutoCAD Certification during this course. Intro to Architectural Drafting or Intro to Engineering would be *helpful* for a student to complete before taking CAD I.

**1 Credit, Semester  
Grades 10-12  
\*DMACC CAD119 (3 Credits)**

### **DFT504: CAD II**

**AHS, CHS**

**Prerequisites: CAD I (DFT503)**

CAD II will provide students with advanced training in design using 3D visualization in mechanical design. A variety of product illustration techniques will be learned using multiple views, rendering, shading, and animation. Students may receive DMACC credit, advanced standing at some four year colleges, as well as complete a portfolio for employment in this area. You may have the opportunity to obtain Inventor Certification during this course.

**1 Credit, Semester  
Grades 10-12  
\*DMACC CAD125 (3 Credits)**

### **DFT502: Architectural CAD**

**AHS, CHS**

**Prerequisites: Intro to Architectural Drafting (DFT202)**

Would you like to design your own home? This course develops creativity in the design of a residential structure. Students will produce a set of conceptual plans which follow codes and show what the home will look like when built. This course is recommended for students interested in architecture, construction, or design technology. Design principles, layout concepts, and materials for construction will be explored. AutoCad, the industry standard for Computer Assisted Drafting (CAD) programs, is taught.. Students may have the opportunity to obtain Revit Certification during this course.

**1 Credit, Semester  
Grades 10-12  
\*DMACC CAD126 (3 Credits)**

### **ENG507S1: Intro to Engineering Design S1**

**ENG507S2: Intro to Engineering Design S2**

**SV, NV, AHS, CHS**

**Prerequisites: Enrollment in Geometry or beyond.**

In this course, students will use the engineering design process and 3D modeling to create solutions to engineering problems. Students will engage with 3D modeling, technical documentation, data interpretation, and basic game design coding. Students will show their understanding through projects such as reverse engineering, 3D printed charms, puzzle cube design, and coding a computer game.

**2 Credits, Full Year  
Grades 9-12  
\*DMACC EGT400 (3 Credits)**

**ENG508S1: Principles of Engineering S1****ENG508S2: Principles of Engineering S2****2 Credits, Full Year****AHS, CHS****Grades 10-12*****Prerequisites: Concurrent enrollment or completion of Algebra II (Stats or Calc) \*DMACC EGT410 (3 Credits)***

In this course, students will apply the engineering design process to content they will encounter in post-secondary engineering courses. Students will engage in projects exploring simple machines, thermal and electrical energy, material science, statics, and machine control (automation). Students will show their understanding through projects like the guided vehicle, destructive truss design, and automated material sorter.

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# Art (ART)

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## Art Electives

**Note:** Art I (ART101) must be successfully completed before taking any other art course.

### **ART101: Art I**

**SV, NV, AHS, CHS**

**Prerequisites: None**

The focus of Art I will be exploring, experimenting and discovering the expansive world of art. Through a series of exercises and a variety of materials, students will investigate how they and artists throughout history have influenced how we view and respond to works of art. Art I is intended to prepare students to create, connect, respond and present art, with essential visual vocabulary, basic art techniques, and problem solving skills to succeed in other 2-D and 3-D course offerings.

**1 Credit, Semester  
Grades 9-12**

### **ART201: Graphic Design**

**AHS, CHS**

**Prerequisites: Art I (ART101)**

Graphic Design is a class for students who are interested in art that relates to advertising and communication. Students will use Adobe Illustrator to create graphic designs that communicate a message and influence a target audience. Students will learn the basic elements of graphic design and how to apply these elements and techniques when creating compositions that involve multiple sources of information. Students will design icons, posters, advertisements, logo identities, cd packaging, and create digital illustrations. Graphic Design is a good complement to Digital Media and Photography and a recommended course for students interested in studying advertising and/or graphic design in college. Students are advised that this course involves the use of Adobe Illustrator which will require the student to learn and follow linear, multi-step processes that involve the computer.

**1 Credit, Semester  
Grades 10-12**

### **ART202: 2D Level I**

**SV, NV, AHS, CHS**

**Prerequisites: Art I (ART101)**

2D Level I is an introductory class exploring a variety of drawing, painting and printmaking techniques and materials. Emphasis will be placed upon rendering the observed subject accurately. Students will create original works of art that explore the use of line and creating 3D forms on a flat surface. Students will learn to depict realistic space using proportion and measuring techniques such as sighting, 2 and 3 point perspective. Media exploration will include pencil, ink, charcoal, conté, and paint. Students will present original works of art that respond to contemporary and historical art styles related to still life and observational painting and drawing. Students will study 2D media and art history through group discussion, self-evaluations, and individual/group critiques. Students will have extensive sketchbook assignments, formal studio drawings, paintings and prints that will involve intensive participation and personal initiative on the part of the student.

**1 Credit, Semester  
Grades 9-12**

### **ART302: 2D Level II**

**AHS, CHS**

**Prerequisites: 2D Level I (ART202)**

2D Level II will focus on the techniques as well as the process of drawing and painting as an art form. Emphasis will be put on the processes artists use to develop ideas behind the work of art and interpreting the world through drawing, painting and printmaking. Students will continue to explore concepts of still life and work into portrait and figure drawing. Students will explore the use of color in their art. Students will study 2D media and art history through group discussion, self-evaluations, and individual/group critiques. Students will have extensive sketchbook assignments, formal studio drawings, paintings and prints that will engage them in intensive activities and encourage personal initiative.

**1 Credit, Semester  
Grades 10-12**



**ART402: 2D Level III****AHS, CHS****Prerequisites: 2D Level II (ART302)**

2D Level III will focus on the development of ideas and applying media to support the idea of a drawing and painting as an art form. Students will continue to work on drawing and painting skills while developing a personal style. Emphasis will be put on the processes artists use to develop ideas behind the work of art and interpreting the world through drawing, painting and printmaking. Students will continue to explore concepts of portraiture and placing the figure within a space or environment. Students will study two dimensional media and art history through group discussion, self-evaluations, and individual/group critiques. Students will have extensive sketchbook assignments, formal studio drawings, paintings and prints that will engage them in intensive activities and encourage personal initiative. 2D Level III will be an important stepping stone to prepare skills needed to independently develop ideas in AP Studio Art: 2D Design.

**1 Credit, Semester  
Grades 10-12****ART602S1: AP Studio Art: 2D Design S1****ART602S2: AP Studio Art: 2D Design S2****AHS, CHS****Prerequisites: 2D Level III (ART402)**

AP Studio Art has been developed to accommodate serious art students who have expressed an interest in completing the AP Drawing Portfolio or the AP 2-D Design Portfolio. Through studio practice, application of design concepts and informed decision making, these students will assemble a body of artwork that demonstrates a high level of quality and growth over time of content, technique, and process. Students will investigate all three parts of their portfolios as required by the AP College Board: Quality, Concentration, and Breadth. All work will be documented throughout the year by digital photos and by PowerPoint. The Quality section of the portfolio is 5 pieces of work that are chosen from breadth and concentration and sent to the AP Board for judging. In the Drawing and 2-D Design Portfolios, this quality work will be physically sent to the College Board in portfolios provided by the College Board. The Concentration section of the portfolio will consist of 12 high quality artworks that clearly demonstrate that the student has developed a body of work by investigation of a theme or idea. The concentration section must show growth and discovery. In all three portfolios, digital photos will be submitted to document this process of discovery. The Breadth section of the portfolios will consist of 12 artworks that show a variety of mediums, techniques, approaches to drawing and 2-D design. The students should clearly demonstrate their knowledge of the elements and principles of art in these works. Units of study will be presented to satisfy this requirement for each portfolio. 12 digital photos will be submitted for this section.

**2 Credits, Full Year  
Grades 11-12****ART203: 3D Level I****AHS, CHS****Prerequisites: Art I (ART101)**

The Level I course begins with the study of 3D design as it relates to sculptural form and space. Students will work with a variety of media such as wood, clay, metal, and alternative materials. A variety of materials and techniques will be explored such as constructing, modeling, carving, and assemblage. In addition, students will be introduced to the process of idea development and design creation. Students will learn the fundamentals of using basic tools and techniques to create 3D sculptural abstract forms, as well as functional and nonfunctional jewelry as sculptural objects that can be worn. Students will study 3D media and art history through group discussion, self-evaluations, and individual/group critiques. Students will have sketchbook assignments, formal sculptural projects that will involve participation and personal initiative on the part of the student.

**1 Credit, Semester  
Grades 10-12****ART303: 3D Level II****AHS, CHS****Prerequisites: 3D Level I (ART203)**

The 3D Level II course deals with more advanced sculpture and jewelry techniques such as forming metal and roller printing designs and textures into metal to create surface embellishments. Sculpture projects will involve but not limited to wire work, modular assemblage, and low relief casts. In addition, students will continue to focus on developing original ideas and design creation related to texture, movement, weight and volume. Students will study 3D media and art history through group discussion, self-evaluations, and individual/group critiques. Students will have sketchbook assignments, formal sculptural projects that will involve participation and personal initiative on the part of the student.

**1 Credit, Semester  
Grades 10-12**

**ART403: 3D Level III****AHS, CHS****1 Credit, Semester****Grades 11-12*****Prerequisites: 3D Level II (ART303)***

The 3D Level III course deals with advanced sculpture and jewelry project will involve, but is not limited to, processes such as lost wax casting, enameling, installation, ephemeral (temporary), figurative sculpture. Students will continue to work on 3D spatial skills while developing a personal style. Emphasis will be put on the processes artists use to develop ideas behind the work of art. Students will continue to explore concepts such as space, scale, time and volume. Students will study 3D media and art history through group discussion, self-evaluations, and individual/group critiques. Students will have sketchbook assignments, formal sculpture and jewelry projects that will demand intensive participation and personal initiative on the part of the student. 3D Level III will be an important stepping stone to prepare skills needed to independently develop ideas in AP Studio Art: 3D Design.

**ART603S1: AP Studio Art: 3D Design S1****ART603S2: AP Studio Art: 3D Design S2****AHS, CHS****2 Credits, Full Year****Grades 11-12*****Prerequisites: 3D Level III (ART403)***

AP Studio Art has been developed to accommodate serious art students who have expressed an interest in completing the AP Drawing Portfolio or the AP 3D Design Portfolio. Through studio practice, application of design concepts and informed decision making, these students will assemble a body of artwork that demonstrates a high level of quality and growth over time of content, technique, and process. Students will investigate all three parts of their portfolios as required by the AP College Board: Quality, Concentration, and Breadth. All work will be documented throughout the year by digital photos and by PowerPoint. The Quality section of the portfolio is 5 pieces of work that are chosen from breadth and concentration and sent to the AP Board for judging. In the Drawing and 3D Design Portfolios, this quality work will be physically sent to the College Board in portfolios provided by the College Board. The Concentration section of the portfolio will consist of 12 high quality works that clearly demonstrate that the student has developed a body of work by investigation of a theme or idea. The concentration section must show growth and discovery. In all three portfolios, digital photos will be submitted to document this process of discovery. The Breadth section of the portfolios will consist of 16 digital images of 8 works of art that show a variety of mediums, techniques, approaches to drawing and 3D design. The students should clearly demonstrate their knowledge of the elements and principles of art in these works. Units of study will be presented to satisfy this requirement for each portfolio.

**ART204: Ceramics Level I****AHS, CHS****1 Credit, Semester****Grades 10-12*****Prerequisites: Art I (ART101)***

Students in Ceramics Level I will be introduced to basic hand building clay techniques used to create functional and sculptural pieces of art. These techniques will be explored through the production of pinch pot vessels and bowls, relief tiles, coil containers and slab containers. A variety of surfaces and firing techniques will be explored including pit-fire, raku and mid-fire oxidation glazes and oxides. Clay production will be infused with design studies, idea development (research, drawing, model making), art criticism and art history.

**ART304: Ceramics Level II****AHS, CHS****1 Credit, Semester****Grades 10-12*****Prerequisites: Ceramics Level I (ART204), 3D Level I (ART203)***

Students in Ceramics II will become proficient using hand building clay techniques used to create functional and sculptural pieces of art; students will also become proficient using a variety of surfaces and firing techniques including pit-fire, raku and mid-fire oxidation glazes and oxides. Students will be introduced to basic wheel throwing techniques used to create cylinders, bowls, jars and platters. Clay production will be infused with design studies, idea development (research, drawing, model making), art criticism and art history.

**ART205: Photography I****AHS, CHS****Prerequisites: Art I (ART101)**

The class is an introduction to the use of Pinhole cameras and 35mm Single Lens Reflex cameras to control exposure and selective focus. Students will learn basic black/white film developing, and the use of darkroom enlargers to print black and white photos. Formal compositional concerns are stressed as well as producing a good print. Students will be required to take pictures outside of school time.

**1 Credit, Semester****Grades 10-12****ART305: Photography II****AHS, CHS****Prerequisites: Photography I (ART205)**

Photography II Alternative Processes is intended to increase students' understanding and skills in the area of black and white film photography. Students will explore creative and experimental photographic techniques, such as photo collage, toning, Cyanotype, Van Dyke Brown, pinhole, photo silkscreen, multiple exposure, solarizing, and lomo photography. They will continue to practice mastery of photo composition and the understanding of the camera and darkroom procedures. Students will be required to take all pictures outside of school time and off school grounds.

**1 Credit, Semester****Grades 10-12****ART206: Digital Media and Photography****SV, NV, AHS, CHS****Prerequisites: Art I (ART101)**

Students in Digital Media and Photography will use digital cameras, flatbed scanners and Adobe software to produce digital works of art. Students will learn about digital cameras and how they work, how to identify interesting subjects to photograph and how to create visually dynamic photographs by incorporating basic photographic compositional techniques. Students will learn how to get the most from their digital cameras and will have opportunities to learn about and use DSLR cameras. Students will be exposed to Adobe Photoshop, Illustrator and Lightroom in order to edit and manipulate digital images, as well as create digital drawings and digital paintings. Image production will be infused with software applications, design studies, idea development, art history and creativity.

**1 Credit, Semester****Grades 9-12****ART506S1: Principles of Digital Photography S1****ART506S2: Principles of Digital Photography S2****AHS, CHS****Prerequisites: None**

Students will have the opportunity to learn basic principles of digital SLR. Students explore SLR camera operations, photography techniques, subject matter, point of view, lighting, composition and metering. Digital photographs are edited and manipulated using Adobe Lightroom and Adobe Photoshop. This course allows students to develop the relationships between subject, photographer, camera and software that are necessary to achieve effective visual communication and to produce high-quality digital photographs.

**2 Credits, Full Year****Grades 10-12****\*DMACC ART186 (3 Credits), ART225 (3 Credits)**

## 8th Grade Exploratory Course

Exploring Business and Information Solutions/Computer Science

## 9th-12th Grade Courses

General Business Pathway	Management Pathway	Finance Pathway	Marketing Pathway
Introduction to Business (9-12)	Starting a Business/ Entrepreneurship (10-12)	Managing Your Money (10-12)	Sports and Entertainment Marketing (9-12)
Business Applications (9-12)	Running a Business (10-12)	Principles of Accounting (10-12)	Social Media Marketing (10-12)
Business and Personal Law (10-12)	Leadership in the Workplace (10-12)	Intro to Investing (10-12)	Creative Digital Marketing (10-12)

## Work-Based Learning Experiences

*Career Exploration and Development, DMACC Career Academies, Orbis Pre-Apprenticeship, Orbis Internships and Orbis Project-Based Experience	*Career Exploration and Development, DMACC Career Academies, Orbis Pre-Apprenticeship, Orbis Internships and Orbis Project-Based Experience	*Career Exploration and Development, DMACC Career Academies, Orbis Pre-Apprenticeship, Orbis Internships and Orbis Project-Based Experience	*Career Exploration and Development, DMACC Career Academies, Pre-Apprenticeship, Orbis Internships and Orbis Project-Based Experience
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## Possible Career Fields

Administrative Services Legal Services	Operations Management Human Resource Management General Management Small Business Owner	Banking Services Securities and Investments Broker Personal Financial Planner Accounting Services Insurance Services Actuarial Sciences	Buying/ Merchandising General Marketing Marketing Research Social Media Content Creator Social Media Mktg Manager Professional Sales
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\*See page 61 for details on Work-Based Learning Experiences

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# Business (BUS)

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## General Business Electives

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**BUS101: Introduction to Business**

SV, NV, AHS, CHS

**Prerequisites: None**

This course will introduce students to the world of business and the economy. Although not a prerequisite, this class is considered a foundational course for all business courses, and will explore concepts of economics, entrepreneurship, finance, marketing, and management.

**1 Credit, Semester****Grades 9-12****BUS201: Business Applications**

SV, NV, AHS, CHS

**Prerequisites: None**

This course will provide students with a variety of multimedia technology experiences. They will explore how to correctly use cloud-native workplace collaboration suites and communication tools to be effective and organized both in school and in the workplace.

**1 Credit, Semester****Grades 9-12****BUS301: Business and Personal Law**

AHS, CHS

**Prerequisites: None**

This course will provide an introduction to the law and legal principles. The course will educate students on the structure of the court system, civil litigation, and methods of alternative dispute resolution. Specific areas of study include: torts, contracts, property, trusts and estates, corporations, family and criminal law and procedure.

**1 Credit, Semester****Grades 10-12**

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## Management Electives

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**BUS102: Starting a Business (Entrepreneurship)**

AHS, CHS

**Prerequisites: None**

Have you ever had what you thought was a fantastic idea for a new business and wondered what it would take to get that business started? If so, this is the course for you! This course introduces students to a wide array of entrepreneurial start-up concepts and skills, including the role of entrepreneurship in our economy, the entrepreneurial discovery processes, ideation, and preliminary start-up planning.

**1 Credit, Semester****Grades 10-12****BUS202: Running a Business**

AHS, CHS

**Prerequisites: None**

This course allows the student to explore the opportunities available and learn about the management and problem-solving skills that are necessary to be successful in today's workplace. Student's will be introduced to a variety of different types of management activities that help businesses achieve goals. Topics covered include communications, customer relations, operational, organizational, human resources, quality, risk and project management.

**1 Credit, Semester****Grades 10-12**

**BUS302: Leadership in the Workplace****AHS, CHS****Prerequisites: None**

This course focuses on creating an understanding of the role and skills needed to be a leader in any organization and will offer students the tools necessary to effectively lead both individuals and teams in today's complex organizational climate. Content will include, but not be limited to, lessons on understanding essential interpersonal relationship and key leadership skills; how to inspire, influence, motivate, and lead individuals, projects, and teams; how to develop effective goals that are focused on accomplishing continuous growth and reaching a shared vision; how to resolve conflicts and coach to improve employee performance; and how to communicate effectively as a leader. Students will examine and discuss ethical decision-making scenarios from the workplace, as well as small-group leadership activities. They will have the opportunity to develop a self-reflection portfolio on their personal growth as a future workplace leader.

**1 Credit, Semester****Grades 10-12****Finance Electives****BUS103: Managing Your Money****AHS, CHS****Prerequisites: None**

In this course, students will learn to manage the tools, strategies, and systems available to maintain, monitor, control, and plan the use of financial resources for their personal lives.

**1 Credit, Semester****Grades 10-12****BUS203S1: Principles of Accounting I S1****BUS203S2: Principles of Accounting I S2****AHS, CHS****Prerequisites: None**

Accounting Principles is an introductory look into the field of accounting, covering the process of recording, analyzing, classifying, summarizing, and communicating accounting information. Students will have the opportunity to learn how to interpret and formulate financial information for use in management decision making.

**2 Credits, Full Year****Grades 11-12****BUS303: Intro to Investing****AHS, CHS****Prerequisites: None**

This course provides a basic understanding of the investment process and the potential risks and returns associated with investing in financial assets. A broad range of topics are covered to provide basic knowledge of the various types of investment instruments and trading mechanisms available in the financial market. Risk measurement and the relation of risk to security returns, analytical techniques used for the evaluation of financial assets, and how to allocate funds to form portfolios to attain various investment strategies are also included in the course.

**1 Credit, Semester****Grades 10-12**

## Marketing Electives

### **BUS104: Sports and Entertainment Marketing**

**SV, NV, AHS, CHS**

**Prerequisites: None**

Whether you are watching a famous athlete make an unbelievable play or witnessing a sensational singing performance, the world of sports and entertainment is never boring. In this course, students will explore basic marketing principles while delving deeper into the multi-billion dollar sports and entertainment industry. Learn how professional athletes, sports teams, and entertainers are marketed as commodities and how the savvy people who handle these deals can become very successful. This course will show you how things work behind the scenes of a major entertainment event and how you can be part of the act.

**1 Credit, Semester  
Grades 9-12**

### **BUS204: Social Media Marketing**

**AHS, CHS**

**Prerequisites: None**

In this course, you will learn about social media platforms and experience how to generate revenue for a business by marketing (creating and managing posts) on Facebook, Instagram, TikTok, X, and YouTube. If you only use social media platforms as a place to keep track of friends and/or share personal photos about events in your life, then be prepared to learn how you can use this technology in a much more powerful way!

**1 Credit, Semester  
Grades 10-12**

### **BUS304: Creative Digital Marketing**

**AHS, CHS**

**Prerequisites: None**

Have you ever wondered why some things you hear and see in advertisements just stick in your head, such as America Runs on Dunkin and What's in Your Wallet? This course will cover the basics of planning, creating, using, and placing advertisements in the business world. Students will analyze past and current marketing and promotional strategies of companies, learn how to create display, video, and audio creatives (advertisements), and develop these creatives to meet the needs of an organization's marketing plan.

**1 Credit, Semester  
Grades 10-12**

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# Human Services (FCS/EDU)

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## FCS Electives

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**FCS101: Intro to Foods**

SV, NV, AHS, CHS

**Prerequisites: None**

This one semester course emphasizes the basics of food preparation and nutrition. Students will be engaged in open forum learning with the unique opportunity to directly apply the content taught to prepare, taste, and evaluate food. Students will study the following areas: safety and sanitation in the kitchen, measuring and using recipes, beef, poultry, vegetables, fruits, eggs, quick breads, pie, dairy products, and knife skills. This course is recommended for everyone interested in learning an independent living skill.

**1 Credit, Semester****Grades 9-12****FCS102: Child Development**

SV, NV, AHS, CHS

**Prerequisites: None**

Child Development is a specialized course that prepares students to understand the physical, social, emotional, and intellectual growth and development of children from infant through age twelve. The course is designed to help young people acquire knowledge and skills essential to the care and guidance of children as a parent or caregiver. Emphasis is placed on helping students create an environment for children that will promote optimum development.

**1 Credit, Semester****Grades 9-12****FCS103: Fashion Merchandising**

SV, NV

**Prerequisites: None**

Fashion Merchandising is a hands-on project-based class. Students will explore fashion from the decades along with the elements and principles of design. Examples of projects include designing and selling "mascot wear", clothing redesign/construction, and conducting a fashion show. Fashion Merchandising is open to all students.

**1 Credit, Semester****Grade 9****FCS202: Parenthood**

AHS, CHS

**Prerequisites: None**

Parenthood is a course for anyone who wants to be a parent in the future. Students will study the decision to be a parent, male/female anatomy, contraceptives, STI's, prenatal care, pregnancy, labor and delivery. Students will also be responsible for caring for "Baby Think it Over" for a weekend.

**1 Credit, Semester****Grades 10-12****FCS203: Relationships in Reality**

AHS, CHS

**Prerequisites: None**

This course encourages students to examine their beliefs and expectations about being a part of a family and finding a life-long partner. Course content includes dating, love, marriage, marriage laws and customs, sexuality, contraceptives, children, divorce, death and grieving.

**1 Credit, Semester****Grades 10-12****FCS204: Interior Design**

AHS, CHS

**Prerequisites: None**

This course is designed for students who want to learn basic decorating techniques for their own bedroom or future home, or as an introduction to a career in interior design. Course content includes: floor plans, principles and elements of design, wall coverings, window coverings and floor coverings.

**1 Credit, Semester****Grades 10-12**



**FCS501: Food Prep I****FCS502: Food Prep I Lab**

AHS, CHS

**2 Credits, Semester****Grades 10-12****Recommended: Intro to Foods (FCS101)****\*DMACC HCM143 (3 Credits), HCM144 (3 Credits)**

This block class is a more advanced study of food preparation skills. Students will gain food service skills and knowledge by operating a simulated food service operation from the classroom. Units covered will include: safety, sanitation, kitchen terms, kitchen tools, baking basics, knives and garnishes, salads, fruits, vegetables, grain products, dairy, meat, soups, sauces, stocks, puddings, yeast breads, eggs, and seafood.

**FCS505: Fashion Analysis & Design**

AHS, CHS

**1 Credit, Semester****Grades 10-12****Recommended: Fashion Merchandising (FCS103) recommended.**

Recommended for students interested in pursuing a fashion or design related degree and/or career, this semester course introduces you to the fashion industry. Course emphasis is the many scaffolding phases of the apparel industry. Fashion terms, styles, capitals and designers will be researched and discussed. Design elements and design principles will be studied and applied to the retail industry. Students will use presentation modes, creative design applications, and writing exercises to express knowledge in all areas. Students will study fashion history, cycles and trends in order to develop prediction patterns to design a group line and marketing strategies. Consumerism and fashion related careers will be explored. Students will design a professional portfolio throughout the semester for key fashion strategies.

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## Education Electives

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**EDU510: Teacher Academy: Intro to Education**

AHS, CHS

**2 Credits, Fall Semester****Grades 11-12****Prerequisites: None****\*DMACC EDU210 (3 Credits)**

This course presents a broad overview of the field of education including: foundations and structure of American education; roles of teachers and students; history and philosophy; current laws and legal responsibilities of schools and teachers, including multicultural and gender equity issues; effective teaching practices used by teachers; classroom management and discipline practices; professional affiliations, mentoring, and peer coaching; curriculum development that focuses on improved student outcomes; and career research and decisions. Students who enroll in this course must be able to provide their own transportation to schools. Students will meet two days each week at the Orbis building and three days each week completing a practicum at a local elementary or middle school. Daily attendance is a top priority.

**EDU511: Teacher Academy: Internship in Education**

AHS, CHS

**2 Credits, Spring Semester****Grades 11-12****Prerequisites: Must be taken the same year as Intro to Education (EDU510)****\*DMACC EDU218 (2 Credits)****WBL100 (1 credit)**

Teacher Academy is for students who have a special interest in working with children and are investigating going into the field of education. Students will spend two days each week at the Orbis building and three days each week completing a practicum at a local elementary or middle school. Daily attendance is a top priority. Students who enroll in this course must be able to provide their own transportation to schools. Students completing EDU510 and EDU511 may earn a [Paraprofessional Generalist Certificate](#) from DMACC.

## Music (MUS)

### Vocal Music

**Note:** Students are required to be in a concert choir to enroll in a show choir.

#### **MUS101S1: 9th Bass Clef Choir S1**

#### **MUS101S2: 9th Bass Clef Choir S2**

SV, NV

**2 Credits, Full Year**

**Grade 9**

**Prerequisites:** None

The 9th Grade Bass Clef Choir is a vocal music ensemble comprised of students whose voices sing primarily in the bass clef range. It is a year-long elective course meeting daily. Students will learn basic vocal skills & knowledge – including individual or small group voice lessons concentrating on proper vocal techniques; as well as learn music literacy skills & knowledge, including the use of solfège hand-sign and Takadimi rhythm syllable techniques. As a choir, the students will develop independent part-singing skills and perform as an ensemble, a variety of choral literature reflecting various historical style periods. Due to the nature of the choir experience, required performances will occur outside of the school day, most commonly in the evening or on weekends. Enrichment opportunities for 9th Grade Choir members include, but are not necessarily limited to, auditioning for and participating in the OPUS Honor Choir.

#### **MUS102S1: 9th Treble Clef Choir S1**

#### **MUS102S2: 9th Treble Clef Choir S2**

SV, NV

**2 Credits, Full Year**

**Grade 9**

**Prerequisites:** None

The 9th Grade Treble Clef Choir is a vocal music ensemble comprised of students whose voices sing exclusively in the treble clef range. It is a year-long elective course meeting daily. Students will learn basic vocal skills & knowledge - including individual or small group voice lessons concentrating on proper vocal techniques; as well as learn music literacy skills & knowledge, including the use of solfège hand-sign and Takadimi rhythm syllable techniques. As a choir member, the students will develop independent part-singing skills and perform as an ensemble, a variety of choral literature reflecting various historical style periods. Due to the nature of the choir experience, required performances will occur outside of the school day, most commonly in the evening or on weekends. Enrichment opportunities for 8th Grade Choir members include, but are not necessarily limited to, auditioning for and participating in the OPUS Honor Choir.

#### **MUS201S1: 10th-12th Chorus S1**

#### **MUS201S2: 10th-12th Chorus S2**

**2 Credits, Full Year**

#### **MUS202S1: 10th-12th Intermediate Chorus S1**

#### **MUS202S2: 10th-12th Intermediate Chorus S2**

**2 Credits, Full Year**

#### **MUS301S1: 10th-12th Honors Chorus S1**

#### **MUS301S2: 10th-12th Honors Chorus S2**

**2 Credits, Full Year**

AHS, CHS

**Grades 10-12**

**Prerequisites:** Previous choral music experience or teacher's consent.

The Ankeny Choral Music Department (ACM) offers a wide range of choral activities throughout the academic year. The curriculum includes learning from all periods of music history in preparation for the annual concert season, as well as learning technical skills such as solfege, sight reading, voice technique and musicianship. Students will be assigned to one of three ensembles: Concert Choir, Ankeny Singers or Cantamus, based on experience and audition results. Other activities offered by ACM include All-State Music auditions and music festivals including the ACM Solo and Ensemble Festival. As a member of the Ankeny High School Choral Department, participation in assessments (public performances and rehearsals) is required. Due to the nature of the class, assessments will frequently take place outside of the school day. This is a vital part of the music education process and the aesthetic development of each student and is the culmination of the educational process.

## Instrumental Music

**Note:** Students are required to be in instrumental music to enroll in co-curricular jazz ensembles.

**MUS150S1: 9th Band S1**

**MUS150S2: 9th Band S2**

**SV, NV**

**2 Credits, Full Year**

**Grade 9**

**Prerequisites:** *Ability to play an instrument or teacher consent.*

Ninth grade band is a performance-based class that focuses on the in-depth study and preparation of a variety of styles of high quality band literature. Differentiated instruction will be based on performance assessments. Ninth grade band commences with marching band in the fall. Comprised of all members of the 9-12 band programs, the marching band season starts with pre-season sectionals and an annual August band camp. The marching band meets daily before school until mid-October. Participation includes several Saturday commitments and performances at all home football games. Concert and marching band literature is used as a vehicle to extend the development of rhythmic competency, tonal literacy, and musical expression. Students will refine these skills through solo and ensemble repertoire performance. Expanded enrichment opportunities will be offered, including auditioning for honor bands and All-State ensembles. 9th grade band will introduce expanded instrumentation. In addition to the full ensemble component of 6th grade band, each student is required to prepare for and attend a regularly scheduled small-group lesson on his/her instrument. In this smaller setting, students can continue to develop and expand their skills and address idiomatic issues for their specific instrument.

**MUS250S1: 10th Band S1**

**MUS250S2: 10th Band S2**

**MUS350S1: 11th-12th Band S1**

**MUS350S2: 11th-12th Band S2**

**AHS, CHS**

**2 Credits, Full Year**

**2 Credits, Full Year**

**Grades 10-12**

**Prerequisites:** *Ability to play an instrument.*

The instrumental music department offers a wide variety of opportunities for those students who play a musical instrument. All students with past instrumental experience are urged to continue in this work. Some of the activities are as follows: marching band, concert band, stage or jazz band, small ensembles, and solos. Other activities include the All State Music Festival, home concerts, Honor Bands, and state music contests. Many of the activities associated with Instrumental Music require practice time outside the school day. Marching Band, for example, begins prior to the school day. A lesson schedule is set up for students once every six school days during study halls. Some instruments are available to students on a rental basis. In the event the student has had no previous instrumental training and is interested in learning to play a horn, a student should make an appointment with the band director.

## Music Electives

**MUS320S1: Music Fundamentals S1**

**MUS320S2: Music Fundamentals S2**

**AHS, CHS**

**2 Credits, Full Year**

**Grades 11-12**

**Prerequisites:** *None*

Music Fundamentals is a course in the construction and form of music. The student will develop an understanding of the fundamentals of writing music including harmony, rhythm, and ear training. Modern technology will be used in the development of skills using MIDI language and equipment. It is recommended that only those students with above average background and interest take this course.

**MUS620S1: AP Music Theory S1****MUS620S2: AP Music Theory S2****AHS, CHS****2 Credits, Full Year****Grades 11-12*****Prerequisites: None***

The ultimate goal of AP Music Theory is to develop a student's ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. The achievement of these goals will be approached by initially addressing fundamental aural, analytical and compositional skills using both listening and written exercises. Building on this foundation, the course will progress to include more creative tasks, such as the harmonization of a melody, by selecting appropriate chords, composing a musical bass line to provide two-voice counterpoint or the realization of figured-bass notation. At the conclusion of this course students will be prepared and encouraged to take the corresponding AP exam as a summative assessment of their achievement.

## Orbis/Work-Based Learning (ORB)

**ORB301x2S1: Orbis Project-Based Experience (2Cr) S1**

**ORB301x2S2: Orbis Project-Based Experience (2Cr) S2**

**AHS, CHS**

**Prerequisites: None**

Orbis Project-Based Experience empowers students to unleash their passion, realize their potential, and impact the world. Project Mentors (teachers) team up with Project Providers and Workforce Experts to equip the next generation of creative problem-solvers. In this course, students:

- Co-design their learning, engaging in personalized experiences.
- Engage in authentic project work with the workforce.
- Collaborate with the workforce and peers from multiple high schools.
- Are empowered as young professionals.

Elements of the course include Design Thinking, agile project management, and leadership development. This course may be repeated for credit.

**2 Credits, Fall Semester**

**2 Credits, Spring Semester**

**Grades 10-12**

**ORB211: Orbis Internship**

**ORB211x2: Orbis Internship (2 Cr)**

**ORB211x3: Orbis Internship (3 Cr)**

**ORB211x4: Orbis Internship (4 Cr)**

**ORB211x5: Orbis Internship (5 Cr)**

**AHS, CHS**

**Orbis Project-Based Experience highly recommended**

This course is designed to help students enter a professional postsecondary path that leads to highly skilled occupations. The experience links secondary and postsecondary education with business and industry and aligns with the State of Iowa's definition of Work-Based Learning where the student is working to learn in a professionally designed experience with clear growth outcomes and performance expectations. Students are expected to take initiative for their own learning as they seek to gain valuable experiences and explore potential career paths. Upon demonstrating proficiency during onboarding at the onset of the term, the internship experience is independent in nature with minimal instructor support, and is designed for students to be responsible in completing course requirements and meeting deadlines. This course may be repeated for credit.

**1 Credit, Semester**

**2 Credits, Semester**

**3 Credits, Semester**

**4 Credits, Semester**

**5 Credits, Semester**

**Grades 11-12**

**ORB212: Orbis Pre-Apprenticeship**

**ORB212x2: Orbis Pre-Apprenticeship (2 Cr)**

**ORB212x3: Orbis Pre-Apprenticeship (3 Cr)**

**ORB212x4: Orbis Pre-Apprenticeship (4 Cr)**

**ORB212x5: Orbis Pre-Apprenticeship (5 Cr)**

**AHS, CHS**

**Prerequisites: None**

The Pre-Apprenticeship Work-Based Learning course provides high school students with hands-on training and foundational skills in the skilled trades, preparing them for entry into formal apprenticeship programs. Through partnerships with local trades organizations, students will gain exposure to real-world work environments in fields such as HVAC, manufacturing, electrical, and plumbing. The course includes both classroom instruction and practical experience, helping students develop essential technical skills, problem-solving abilities, and workplace professionalism. Upon completion, students may pursue industry-recognized certifications and have the opportunity to seamlessly articulate into registered apprenticeships, providing a direct path to high-demand, well-paying careers in the trades.

**1 Credit, Semester**

**2 Credits, Semester**

**3 Credits, Semester**

**4 Credits, Semester**

**5 Credits, Semester**

**Grades 10-12**

**ORB550: Career Exploration and Development****2 Credits, Semester (Blocked Class)****AHS, CHS****Grades 10-12*****Prerequisites: None*****\*DMACC WBL100 (1 credit), 110 (2 credits)**

Career Exploration and Development is a one-semester, blocked program for students looking for real and authentic learning experiences to see and explore career opportunities across industries. The program is designed to develop professional skills and behaviors expected of employees; while exploring the opportunities available through employers with informational interviews, job shadows, and more. The concentration is on helping students see what career opportunities are available, develop skills toward careers of interest, and identify potential work-based learning opportunities for future semesters. Students who enroll in this course must be able to provide their own transportation to exploration experiences (job shadows, site visits, career fairs). ***This course meets two periods per day and students will receive two credits.***

**ORB201: Leadership and Character Development****1 Credit, Semester****AHS, CHS****Grades 10-12*****Prerequisites: None***

This elective course will give students an opportunity to develop leadership skills. This is a missing element for high school students as we prepare them to become our country's next generation of learners and leaders. With the introduction of PBIS at the high school levels, the course appears to be a natural fit with developing our students to become leaders within our school and community. This course would be *helpful* for a student to complete before taking any of the Orbis offerings.

# World Languages (MLA)

## French

### **MLA101S1: French I S1**

### **MLA101S2: French I S2**

**SV, NV, AHS, CHS**

**Prerequisites: None**

Students will acquire the French language and explore the cultures of a variety of French-speaking countries. Students will listen, read, speak, and write in the language in an effort to build proficiency. This course aims to build students' language skills while deepening their understanding and appreciation of the rich diversity of the French-speaking world.

**2 Credits, Full Year**

**Grades 8-12**

### **MLA201S1: French II S1**

### **MLA201S2: French II S2**

**SV, NV, AHS, CHS**

**Prerequisites: French I (MLA101)**

Students will build upon skills gained in French 1 to continue the acquisition of the French language and the exploration of the cultures of French-speaking countries. Students will continue to listen, read, speak, and write in the language in an effort to be more creative with their language abilities and to improve proficiency. This course further builds students' language skills while continuing to deepen their understanding and appreciation of the rich diversity of the French-speaking world.

**2 Credits, Full Year**

**Grades 9-12**

### **MLA301S1: French III S1**

### **MLA301S2: French III S2**

**AHS, CHS**

**Prerequisites: French II (MLA201)**

French III will build upon the foundational knowledge gained in French I and II, aiming to enhance students' proficiency and fluency in the French language. This course focuses on further developing linguistic skills in listening, speaking, reading, and writing while delving deeper into Francophone cultures and civilizations.

**2 Credits, Full Year**

**Grades 10-12**

### **MLA501S1: French IV S1**

### **MLA501S2: French IV S2**

**AHS, CHS**

**Prerequisites: French III (MLA301)**

French IV is designed to provide students with an advanced level of proficiency in the French language, emphasizing linguistic mastery, cultural exploration, and critical analysis. This course aims to refine students' language skills while deepening their understanding and appreciation of the rich diversity of the French-speaking world.

**2 Credits, Full Year**

**Grades 11-12**

### **MLA511S1: French V S1**

**AHS, CHS**

**Prerequisites: French IV (MLA501)**

This course aims to extend proficiency in French. Skills in listening, speaking, reading and writing are further developed around themes of academic and social issues using authentic resources to expand their knowledge of cultures of the Francophone peoples of the world. The intermediate level places special emphasis on classroom discussion and on compositions of greater length. This course serves as a prerequisite for MLA512S2. [Competencies for this college level course can be found here.](#)

**1 Credit, Semester**

**Grade 12**

**\*DMACC FLF241 (4 Credits)**

**MLA511S2: French V S2****AHS, CHS****Prerequisites: French V (MLA511S1)****1 Credit, Semester****Grade 12****\*DMACC FLE242 (4 Credits)**

This dual enrollment course builds on Ankeny's MLA512S1/DMACC's FLS 241 to further develop proficiency in French. Emphasis is on the continued study of authentic and representative literary and cultural texts to expand skills in listening, speaking, reading and writing with increasing complexity. Class topics center around themes of academic and social issues and use of authentic resources to strengthen awareness of the cultures of the Francophone peoples of the world. [Competencies for this college level course can be found here.](#)

## Spanish

**MLA102S1: Spanish I S1****MLA102S2: Spanish I S2****SV, NV, AHS, CHS****Prerequisites: None****2 Credits, Full Year****Grades 8-12**

Students will acquire the Spanish language and explore the cultures of a variety of Spanish-speaking countries. Students will listen, read, speak, and write in the language in an effort to build proficiency. This course aims to build students' language skills while deepening their understanding and appreciation of the rich diversity of the Spanish-speaking world.

**MLA202S1: Spanish II S1****MLA202S2: Spanish II S2****SV, NV, AHS, CHS****Prerequisites: Spanish I (MLA102)****2 Credits, Full Year****Grades 9-12**

Students will build upon skills gained in Spanish 1 to continue the acquisition of the Spanish language and the exploration of the cultures of Spanish-speaking countries. Students will continue to listen, read, speak, and write in the language in an effort to be more creative with their language abilities and to improve proficiency. This course further builds students' language skills while continuing to deepen their understanding and appreciation of the rich diversity of the Spanish-speaking world.

**MLA302S1: Spanish III S1****MLA302S2: Spanish III S2****AHS, CHS****Prerequisites: Spanish II (MLA202)****2 Credits, Full Year****Grades 10-12**

Spanish III offers a balanced program of conversation, composition, grammar, vocabulary and culture. Students review levels I and II material as needed. Third year students expand their knowledge of art, music, history, culture and geography of Spanish-speaking countries. The student may have the opportunity to travel to a Spanish speaking country after ninth grade. Students must meet the prerequisite requirements as specified by DMACC.

**MLA502S1: Spanish IV S1****MLA502S2: Spanish IV S2****AHS, CHS****Prerequisites: Spanish III (MLA302)****2 Credits, Full Year****Grades 11-12**

Spanish IV is designed to provide students with an advanced level of proficiency in the Spanish language, emphasizing linguistic mastery, cultural exploration, and critical analysis. This course aims to refine students' language skills while deepening their understanding and appreciation of the rich diversity of the Spanish-speaking world.



**MLA512S1: Spanish V S1****AHS, CHS****Prerequisites: Spanish IV (MLA502)****1 Credit, Semester****Grade 12****\*DMACC FLS241 (4 Credits)**

This course aims to extend proficiency in Spanish. Skills in listening, speaking, reading and writing are further developed around themes of academic and social issues using authentic resources to expand their knowledge of cultures of the Spanish-speaking peoples of the world. The intermediate level places special emphasis on classroom discussion and on compositions of greater length. This course serves as a prerequisite for MLA512S2. [Competencies for this college level course can be found here.](#)

**MLA512S2: Spanish V S2****AHS, CHS****Prerequisites: Spanish V (MLA512S1)****1 Credit, Semester****Grade 12****\*DMACC FLS241 (4 Credits)**

This course aims to extend proficiency in Spanish. Skills in listening, speaking, reading and writing are further developed around themes of academic and social issues using authentic resources to expand their knowledge of cultures of the Spanish-speaking peoples of the world. The intermediate level places special emphasis on classroom discussion and on compositions of greater length. This course serves as a prerequisite for MLA512S2. [Competencies for this college level course can be found here.](#)

## WorldLanguage Courses for Qualified Individuals

**MLA524: Spanish for Heritage Speakers I****MLA525: Spanish for Heritage Speakers II**

## Other Courses for Qualified Individuals

**OTH003: Independent Study**

**OTH041: Success Center**

**OTH042: Connections**

**EL032: EL (English Language)**

**PH.OTH097: Cultural Exchange**

**PH.OTH094: Beyond 4+ Program**

**DI.IEP015: Direct Individual Instruction**

**DI.IEP016: Direct Instruction Life Skills**

**DI.IEP017: Direct Instruction Social Skills**

**DI.IEP020: Direct Instruction World of Citizenship**

**DI.IEP021: Direct Instruction World of Work**

**DI.IEP022: Direct Instruction TAP**





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