



# COLLINS-MAXWELL MIDDLE/HIGH SCHOOL

## 9th - 12th Grade Course Selection Handbook 2019-2020

### INSTRUCTIONS

- ✓ Study the entire guide with your parents.
- ✓ Students are encouraged to use the Naviance program through Iowa State University to review their four-year high school plan, explore career interest and educational preparation.  
[www.planyouradventure.net](http://www.planyouradventure.net)
- ✓ Include 2-3 alternate classes you would like to take. If too few students sign up for a particular course, it may be dropped. If you sign up for a course that is dropped, you will be notified and will be given the opportunity to take another course.
- ✓ All students are required to take **6 classes plus P.E.** Unless excused by a medical certificate, P.E. is required for all students. (Band and vocal are not counted as one of the six required classes).
- ✓ **\*\* Students are responsible for seeing that they sign up for the required courses each year. Students are also responsible for signing up for required courses that they have failed and must retake.**

# Table of Contents

I. INTRODUCTION	2
Adding/Dropping Classes	4
Retaking Classes	4
Definitions	5
Graduation Requirements (standard diploma)	6
Graduation Requirements (honors diploma)	7
Grading Scale and GPA Calculations	8
Earning College Credit Opportunities	9
II. COURSE OFFERINGS & DESCRIPTIONS - ON THE CM CAMPUS	
Overview of Courses	12
Example of Grade-By-Grade Course Selections	13
Fine Arts	14
Language Arts Courses	15
Mathematics Courses	18
Science Courses	22
Social Studies Courses	24
Family & Consumer Science Courses	28
Business & Technology Courses	30
Agriculture Courses	33
Music	35
World Language Courses	36
Health & PE Courses	37
Miscellaneous Courses	38
III. COURSE OFFERINGS & DESCRIPTIONS - OFF THE CM CAMPUS	
DMACC Career Academy	39
DMACC SCALE	41
IV. COURSE OFFERINGS & DESCRIPTIONS - ONLINE CLASSES	
DMACC Online Career Academy/ DMACC Cohort Advantage	42
IOAPA Courses	46

## Introduction

This coursebook is designed to help students and parents develop a carefully planned educational program for high school. This plan should be based on established graduation requirements and should reflect the interests and life goals of the student. Students are strongly encouraged to gather information from parents, teachers and the school counselor in their class course selections. Students should select the courses that best fits them as a person, with careful thought and research, and their future in mind.

Students are encouraged to develop an education program that clearly prepares them to enter a post-secondary education program and prepares them to enter their chosen field of work. Parents, teachers, and counselors need to assist students in developing an educational plan that takes advantage of the comprehensive academic, career-technology, and fine and practical arts course offerings. Students who plan to go on to play athletics at the Division I or II level need to pay special attention to the NCAA Core Courses in order to be eligible for competition, practice, and financial aid.

Students are encouraged to maximize the productivity of their time during the school day. Students are required to enroll in a minimum of six (6) academic classes each semester. Students are generally allowed only one daily study hall (more if taking a DMACC online class). Schedule changes can be made prior to the start of the second week of the semester. After that time, changes are made only if the change is deemed necessary by one of the building principals, counselors, or teachers.

The mission of Collins-Maxwell school district is “to prepare responsible individuals for the future through academic and social experiences.” Today’s students face a much more complex and challenging world. As a school system, it is our responsibility to make sure that they are acquiring the skills they will need to be successful. By focusing our efforts on strong curriculum, instruction, and assessment, as well as making sure students are provided with a supportive environment, we can assure that they will be successful.

The following pages represent a brief summary of the courses and activities offered to high school students at Collins-Maxwell High School. **Collins-Maxwell HS offers an impressive 91 classes on campus, 44 online courses through DMACC and the University of Iowa Belin-Blank Center (AP) and another 15 at the DMACC Career Hunziker Center in Ames; for a total of 150 offerings for CMHS students.** The program is arranged to provide for the individual needs of all students through required courses, elective courses and school activities. Members of the faculty and administration are ready to help you with both your educational and personal concerns whenever necessary. If you have any questions, please notify our school counselor, Ms. Martin, at 515-387- 1115 ext. 1300.

Dr. Corey Lunn  
CM MS/HS Principal

## Non-Description Statement

It is the policy of the Collins-Maxwell School District not to illegally discriminate on the basis of race, color, national origin, gender, disability, religion, creed, age (for employment), marital status (for programs), sexual orientation, gender identity, and socioeconomic status (for programs) in its educational programs and its employment practices. There is a grievance procedure for processing complaints of discrimination that can be found in the student handbook.

**Portfolio Requirement:** All students must complete a comprehensive portfolio - in the winter or spring of the senior year - demonstrating and exhibiting how they have achieved the Collins-Maxwell Student Learning Goals. This presentation is given to a committee comprised of an administrator, teacher, community member, and school board member.

**Student Advancement:** When meeting the established criteria, middle school students may be eligible to take and receive credit for high school courses. These credits may count for the diploma requirements and be calculated in the students overall high school GPA.

**Home School Students:** Home school students will be required to submit transcripts at the end of each semester. Home school grades will be transferred in as pass/fail. Credits accepted are at the discretion of the administration, counselor and school board and minimum 16 credits need to be earned at Collins-Maxwell High School to be eligible for the Collins-Maxwell diploma.

**Special Education Students:** Graduation requirements for special education students will be in accordance with the prescribed course of study as described in their Individualized Education Program (IEP). Each student's IEP will include a statement of the projected date of graduation at least 18 months in advance of the projected date and the criteria to be used in determining whether graduation will occur. Prior to the special education student's graduation, the IEP team will determine whether the graduation criteria have been met (board policy 505.6).

Beginning with the class of 2020 it is no longer permissible to award a regular high school diploma base on IEP goal attainment solely. To earn a regular school diploma a student with a disability must complete four years of English, three years of math, three years of social studies and three years of science.

**Graduation:** Students classified as a senior may plan on graduation. Seniors who have developed a plan and are accepted and approved by the Collins-Maxwell High School administration for fulfilling Collins-Maxwell High School graduation requirements in the summer following their senior year, may participate in commencement ceremonies.

Any student who has met the requirements for graduation and who follows the rules set by the administration for the ceremony will be allowed to participate in commencement ceremonies. If, for any reason, a student fails to participate in commencement ceremonies, the student shall still receive his or her final progress report and diploma for completion of graduation requirement.

**Early Graduation:** Generally, students will be required to complete the necessary coursework and graduate from high school at the end of grade 12. Students may graduate prior to this time if they meet the minimum graduation requirements as stated in board policy, and have approval of the Board and a recommendation by the high school principal. Any student needing early graduation, must submit a letter to the high school principal by one year prior to the anticipated graduation date.

Upon graduation, a student will no longer be considered a student and will become an alumnus of the school district. The student who graduates early may participate in Commencement exercises.

## **Adding/Dropping Classes**

Students should select courses carefully with the assistance of their families, teachers and the Counseling Office. Requests for course changes should be the exception. We will attempt to construct a schedule that will let students take the courses they request. Once students request courses for the upcoming year, the acceptable Reasons for Changing REQUESTS are:

- The student would like to move from one level of course to another. For example, move from regular World History to AP World History. This move must be approved by the parent, teacher and counselor.
- Computer and/or clerical error. Course requests will be entered by the student into Family Connections, if there is an error in the clerical move from Family Connections into the school's scheduling program, the change will be considered for approval.
- Special Education/At-Risk/ELL/Special Programming placement changes. The course request change must be related to the student's need for a course based upon placement.
- Failure to meet a course prerequisite.
- Seniors who must enroll in a course to meet graduation requirements or college entrance requirements. Student will need to provide documentation for the change to be considered for approval.

Students may add or drop classes during the second week (10 school days) of the semester. Drops after the second week may result in a grade of "F" and are at the discretion of the counselor and principal.

DMACC classes will be allowed to drop without an F up until the date determined by DMACC. Only AP World History, AP US History and Blended classes may transfer to a regular level course without penalty-as long as the student transfers their current grade with them at that time.

## **Retaking Classes**

A required course for graduation must be made up if failed by a student. To repeat a class, the following rules and procedures will be in effect:

- The repeated class must be taken within the district.
- Credit will only be awarded once for a class. Students cannot gain additional credit by repeating a class.
- The grade earned in the repeated class will be used to calculate the student's cumulative GPA.
- The original courses and grade will show on the transcript, but will not be used in any cumulative GPA calculations
- Students requesting to repeat a class must complete a "Retake" form and return it to the Counseling Office.
- Repeat courses must be taken within two semesters of completion of the original course.
- Students can not repeat a course that has been used as a prerequisite for the subsequent course.
- Acceptance into a class is subject to availability of seats in the class.
- In some cases, the class can be retaken using a credit recovery online program.

Requests that don't meet the above guidelines are subject to administrative approval.

## Definition of Terms

**Credit:** The numerical designation assigned for passing one semester of a course. Most academic subjects receive one credit per semester. Physical education and any class not meeting on a daily basis for the normal amount of time will receive less than one credit per semester.

**Elective:** An elective subject or course is one chosen from course offerings but not required for graduation. These may be in advanced study in a required subject area or exploratory courses in a variety of interest areas.

**Naviance:** NAVIANCE offers students a comprehensive computerized program for career exploration and planning, a component that is required by the state for all high school students. The system includes interest and skills inventories, databases for occupations, postsecondary trade and technical schools/colleges/universities and financial aid resources. All students have access to this system utilizing provided login and passwords. Family Connection is utilized as a part of the CM Middle and High School Advisory curriculum and CMHS parents will soon have their own access available.

The website is <https://www.naviance.com/solutions/parents-students>.

**Prerequisite:** The requirement which must be met by establishing a successful record and a passing grade for a particular course prior to another course being taken, e.g. Spanish I is a prerequisite for Spanish II. Some prerequisites may be waived at the counselor's discretion.

**Required Course:** Any course necessary to meet specific requirements set for graduation by the State of Iowa and the Collins-Maxwell School's Board of Education.

**Edgenuity (e2020):** e2020 is an online learning environment that is designed to best match the curriculum taught in the classroom. Students are given the opportunity to take an e2020 course after consultation with the course instructor, counselor and principal and if they meet any of the following circumstances: credit recovery, conflicts in master schedule, acceleration or the need arises for a course to be taught at a lower grade level. Students taking e2020 courses work independently in the computer lab and at home to complete their course and gain high school credit. e2020 courses are monitored by the teacher of record and parents may request to receive weekly progress reports via email.

**Extended Learning Program:** ELP class is available to students identified for the ELP program. The program is designed to serve the needs of students with academic strengths significantly higher than the regular classroom usually addresses. The identification procedure includes multiple criteria: student application, parent feedback, teacher recommendations, standardized test scores, an Informal interview with ELP teacher, and other factors as they become available. Identification is based upon evidence of very high performance, or potential for performance, in creative thinking and/or critical thinking overall, or in a specific subject area. Student motivation and initiative figure significantly into the identification procedure, so interested students should meet with the building ELP teacher, for more information if needed. The student application form and parent feedback form are available on the district website. The CM Schools ELP Coordinator is Mr. Shannon Haus.

## GRADUATION REQUIREMENTS (Regular Diploma)

The following are minimum graduation requirements for Collins-Maxwell students. Most students will choose to go beyond the minimum requirements needed for graduation.

- (1) World Language is not usually required for students attending a two-year college. Most four year colleges and universities require two years of the same foreign language for admission. Please check with the post-secondary school you are interested in before registering for these classes.
- (2) Electives chosen should include courses that relate to the student's area of interest, increase the student's breadth of knowledge or be additional courses in academic areas.
- (3) The best college preparation is achieved by taking the most high school courses and/or the most demanding high school courses.

46 Credits plus CPR training and completion of a Senior Portfolio Presentation  
(1 credit = 1 semester class)

Department/Course	Number of credits* required for graduation (equivalent to:)	Other notes
English	8 Credits (8 semesters)	One year each of English 9, 10, 11 or AP Language & Composition and English 12
Health	1 Credit (1 semester)	9th Grade Health
Mathematics	6 Credits (6 semesters)	One year each of Algebra I, Algebra II and Geometry *Students must complete 3 years of math in grades 9-12 starting with the class of 2021.
PE	2 Credits (2 semesters) <u>A minimum of .5 PE Credit per year is required</u>	Students with full schedules and/or scheduling conflicts may be eligible, on a case-by-case basis, for an exemption (Board Policy 603.6).
Science	6 Credits (6 semesters)	One year each of Physical Science, Biology and an additional Science Elective choice
Social Studies	6 Credits (6 semesters)	One year each - two semesters - of American History, World History and one semester each of *Economics and Government * = <b>meets Financial Literacy State requirement</b>
Technology	1 Credit (1 semester)	One semester of Google Applications
Electives	15 Credits (15 semesters)	
<b>TOTAL Credits Required for Graduation</b>	<b>46 Credits</b>	

# HONORS GRADUATION REQUIREMENTS

54 Credits plus a minimum of two (2) dual credit and/or AP classes, CPR training and completion of a Senior Portfolio Presentation (1 credit = 1 semester class)

Department/Course	Number of credits* required for graduation (equivalent to:)	Other notes
English	8 Credits (8 semesters)	One year each of English 9, 10, AP Language & Composition and College Prep English
Health	1 Credit (1 semester)	9th Grade Health
Mathematics	8 Credits (8 semesters)	One year each of Algebra I, Algebra II, Geometry, Precalculus and Trigonometry, AP Stats/AP Calculus or Dual Credit
PE	2 Credits (2 semesters) <u>.5 PE Credits 1 Semester</u> <u>per year is required</u>	Students with full schedules and/or scheduling conflicts may be eligible, on a case-by-case basis, for an exemption (Board Policy 603.6).
Science	8 Credits (8 semesters)	One year each of Physical Science, Biology, Chemistry, Physics, Anatomy & Physiology, AP Chemistry
Social Studies	8 Credits (8 semesters)	One year each - two semesters - of American History, World History, a social studies elective and one semester each of *Economics and Government <b>* = meets Financial Literacy State requirement</b>
Technology	1 Credits (1 semesters)	One semester of Google Applications
Electives	17 Credits (16 semesters)	
<b>TOTAL Credits Required for Graduation</b>	<b>54 Credits</b>	

- (1) World Language is not usually required for students attending a two-year college. Most four year colleges and universities require two years of the same foreign language for admission. Please check with the post-secondary school you are interested in before registering for these classes.
- (2) Electives chosen should include courses that relate to the student's area of interest, increase the student's breadth of knowledge or be additional courses in academic areas.
- (3) The best college preparation is achieved by taking the most high school courses and/or the most demanding high school course.

# Collins-Maxwell Grading Scale

Grading Scale For	
Freshmen, Sophomores, Juniors and Seniors	
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

## Calculating Grade Point Averages (GPA)

*Band, Vocal, Driver's Education, and Physical Education do not count towards a student's grade point average.*

**Formula to Calculate Grade Points:  $\square$  Credit x Grade Value of Appropriate Scale = Grade Points**

GRADE POINTS EXAMPLE				
Course Name	Credit	Grade	Grade Value	Grade Points
English 9	1.0	B+	3.3	3.3
World History	1.0	B	3.0	3.0
Health	1.0	A-	3.7	3.7
Algebra I	1.0	C+	2.3	2.3
Spanish I	1.0	A	4.0	4.0
Physical Science	1.0	C-	1.7	1.7
TOTAL	6.0		18	18.0

**Formula to Calculate GPA:  $\square$  Total Grade Points  $\div$  Total Credits = GPA**

GPA EXAMPLE
$18.0$ (Total Grade Points) $\div$ $6$ (Total Credits) = $3.00$ (GPA)

# EARNING COLLEGE CREDIT

## Senior Year Plus- Definitions and Policies

The intent of the Senior Plus statute, as developed by the Iowa Department of Education, is to ensure that all students have increased access to courses that have the potential to generate college credit while in high school. There are various ways students can earn college credit while a full time Collins-Maxwell student. They include Post Secondary Enrollment Options (PSEO), Concurrent Enrollment, DMACC Career Academy, DMACC SCALE and Online Career Academy.

Criteria	PSEO	Concurrent Enrollment	DMACC Career Academy	DMACC Online Career Academy	U of Iowa Belin-Blank Center Online AP Courses
Type of Instruction	Face to Face or online	Face to Face taught at Collins-Maxwell High School	DMACC Location-Ames or Ankeny	Online	Online
Student Eligibility- Grade Level	Grades 11-12, or 9-12 Talented and Gifted	Grades 9-12, plus meet any DMACC entrance requirement	Grades 9-12, plus meet any DMACC entrance requirements	Grades 9-12, plus meet any DMACC entrance requirements	Grades 11-12, plus meet any prerequisites
Student Eligibility- Academic Performance	None	For Arts and Science course, recommend GPA of 3.5 or higher, ACT of 21 or higher, or teacher/counselor recommendation.	In good academic standing, on track to graduate and good attendance.	For Arts and Science course, recommend GPA of 3.5 or higher, ACT of 21 or higher, or teacher/counselor recommendation.	Recommend GPA of 3.5 or higher, ACT of 21 or higher, or teacher/counselor recommendation
Fees/ Transportation	Student can be assessed district cost (up to \$250) if course is failed or not completed. Student is responsible for their own transportation.	No cost to student.	No cost to student, student is responsible for their own transportation except for building trades (4th CTE course offering)	No cost to student.	Student can be assessed district cost (up to \$350) if course is failed or not completed.
Grades	Assigned at the end of term, no progress reports provided.	Assigned at end of the term, progress reports per high school policy and procedure.	Assigned at end of the term, progress reports provided for concerns.	Assigned at end of the term, progress reports provided for concerns.	Assigned at end of the term, no progress reports provided.

### **AP (Advanced Placement) Courses**

College Board Advanced Placement (AP) courses are college level courses and exams. The student may earn college credit, placement or both by qualifying AP exam grades. Students seeking credit through their College program, grant course credit and placement.

### **Concurrent Enrollment Courses**

Collins-Maxwell High School collaborates with Des Moines Area Community College (DMACC) to provide students the opportunity to earn college credit for several CM High School classes. College credit can only be approved when courses are articulated and instructors meet DMACC certification standards. Grades for these courses become part of the permanent college transcript for the student. Current courses approved for concurrent enrollment are AP Calculus, AP Statistics, AP Psychology, Introduction to Engineering, Principles of Engineering, Civil Engineering & Architecture, Computer Integrated Manufacturing, Digital Electronics, AP English Literature and Composition, AP Language and Composition, AP French, AP Spanish, Construction Tech, Welding and School to Work. **DMACC requires students taking AP Calculus or AP Statistics to pass the ALEKS test.** Please consult with the counselors for updates and details.

### **Online Courses**

Students at CM High School may take online courses under certain circumstances. Online course requests will be determined on a case-by-case basis, but cannot replace courses currently offered on campus. Typically, scheduling issues drive the necessity for taking a course online. While there are numerous online institutions, Collins-Maxwell High School currently only allows courses from Iowa Learning Online for credit towards graduation. Online courses must be approved by a school counselor and the building principal (or his/her designee).

### **Career Advantage Programs (DMACC)**

DMACC offers a number of career courses on their campuses that allow senior Collins-Maxwell High School students to earn college credit. Each program requires students to be absent 3 periods per day from Collins-Maxwell High School. Program brochures are available in the Counseling Office. A full listing of classes is found at <https://dmacc.edu/careeradvantage/Pages/cadmacclasses.aspx>.

Students participating in the Career Advantage Program at DMACC are expected to be in good standing at CMHS. This includes but is not limited to attendance for both CMHS and DMACC classes and grades. Students who are credit deficient and/or fail to maintain a C- or better in their Career Advantage courses will not be allowed to continue at DMACC 2<sup>nd</sup> semester.

### **Post Secondary Enrollment Options (PSEO)**

**THE FOLLOWING PROVISIONS WILL BE IN EFFECT ONLY AS PROVIDED BY THE IOWA LEGISLATURE.** Junior and Senior students are eligible to enroll for high school/college credit under the Post-Secondary Enrollment Act. In addition, ninth or tenth grade students who are identified as a gifted and talented student according to the school district's criteria and procedures may now participate under this. Credit earned under this Act will count for both high school and college credit. Students may enroll at Iowa Regents universities, Iowa community colleges or Iowa private colleges. The courses that students select must not be offered at Collins-Maxwell High School. The cost for taking these courses will be paid for by the Collins-Maxwell Community Schools. However,

a student enrolling in a course that drops or fails the class will be responsible for reimbursing the district for the cost of the class.

High school credit earned will be based on how the class/instruction is delivered. If taken as an online course, one (1) credit is awarded. If taken on the DMACC campus then two (2) credits are awarded. These credits will count towards graduation as though they were taken in the high school.

Students enrolling under this process must provide their own transportation. It is also the responsibility of each student to plan a schedule that will work. However, counseling services are available to students both in the high school and through the post-secondary institution. Students and parents are encouraged to get a more detailed description of this Act in the Counseling Office prior to enrolling in courses. Students must contact the Post-Secondary Enrollment Option Coordinator at Collins-Maxwell High School to secure forms and to enroll. The coordinator is located in the Counseling Office. Registration and enrollment depends on notification and regulation provided by each post-secondary institution.

It is the intent of Collins-Maxwell High School to help students take courses at postsecondary institutions if they are eligible, but post-secondary institutions may not all agree to participate in the program. Some colleges have minimum ACT requirements to participate. Please contact a school counselor for assistance in enrolling.

### **Financial Aid Satisfactory Academic Progress Policy**

Grades in dual enrollment courses can affect eligibility for financial aid in college. Students must meet the standard requirements below to be eligible.

#### **Standard Requirements:**

1. Successfully complete 67% of attempted credit hours. This will be measured on a cumulative basis. For example, if a student attempts a total of 12 credit hours the first academic year, the student must satisfactorily complete 8 credit hours.
2. Completion of the academic program in 150% of the published credits of the program.
3. Minimum Cumulative Grade Point Average (GPA) of a 2.0 must be met.
4. If the GPA of completion rate is not met, the student will be on financial probation.
5. Withdrawing from a course: (primary responsibility for the process rests on the student)
  - a. "W" is placed on a student's transcript
  - b. "W" grades count against a student's completion rate
  - c. A student could have a GPA of 2.0 or higher and still be placed on academic warning if they have withdrawn or received "I" grades and thus have a completion rate below 67%.
  - d. "W" does NOT count if a student drops the course within the first two weeks.

## COLLINS-MAXWELL HIGH SCHOOL ON CAMPUS COURSE OFFERINGS

(“#” indicates a required course for graduation)

FINE ARTS	ENGLISH	MATHEMATICS	SCIENCE
NO REQUIREMENT	4 YEARS - 8 CREDITS NEEDED	3 YEARS - 6 CREDITS NEEDED	3 YEARS - 6 CREDITS NEEDED
SEMESTER LONG	YEARLONG	YEARLONG	YEAR LONG
Drawing and Design	English 9#	Algebra 1#	Physical Science (9th)#
Painting	English 10#	Algebra 2#	Biology#
Ceramics	English 11# (or other course)	Geometry#	Chemistry
Photography	AP Language & Comp	Geometry Concepts	Environmental Science
Art Studio	College Prep	Pre-Calculus/Trig	Anatomy & Physiology
	SEMESTER LONG	AP Calculus AB	Physics
	Applied Communications	AP Statistics	AP Chemistry
	DMACC Communication Skills	SEMESTER LONG	
	Young Adult Literature	DMACC Statistics	
	Journalism	DMACC Calculus	
	Multicultural-Literature	DMACC Applied Math	
		Bridges to Algebra (9th)	
BUSINESS/MEDIA	SOCIAL STUDIES	MUSIC	AG/INDUSTRIAL TECH
FINANCIAL LITERACY REQ.	3 YEARS - 6 CREDITS NEEDED	NO REQUIREMENT	NO REQUIREMENT
YEAR LONG	YEARLONG	YEARLONG	SEMESTER LONG
Accounting I	World History#	Vocal Music	Introduction to Agriculture
DMACC ADM 211 and 936	American History#	Instrumental Music	Animal Care & Production
Business Engagement Collaborative	AP U.S. History		DMACC AGS114
SEMESTER LONG	DMACC POL111		(Survey of the Animal Industry)
DMACC ADM221	American National Government		
Career Development Skills	SEMESTER LONG		DMACC AGB 331
DMACC BCA242	Modern U.S History		(Agribusiness Management)
Publications and Photo Editing	Modern U.S. History II		Natural Resources I
Financial Literacy	Civics		Natural Resources II
Introduction to Business	Geography		Innovations in Agriculture
Sports & Entertainment Mktg	Law & Society		Plant Science
Yearbook I	American Government#		Agriculture Welding
Yearbook II	Economics#		Agricultural Shop I
Google Applications#	Sociology		Agricultural Shop II
	Psychology		
	Current Events		
	Character and Leadership		
FAMILY CONSUMER SCIENCE	MISCELLANEOUS	HEALTH & PE	WORLD LANGUAGE
NO REQUIREMENT	NO REQUIREMENT	HEALTH REQUIRED	NO REQUIREMENT
SEMESTER LONG	SEMESTER LONG	YEARLONG	YEARLONG
Nutrition and Wellness	Work Experience	PE - M/W	Spanish I
Culinary Arts		PE - T/TH	Spanish II
Child Development		Weight & Speed - M-F	Spanish III
Human Relations & Family Struc		SEMESTER LONG	Spanish IV
Housing, Textiles & Design		Health 1#	
		Health 2	

**EXAMPLE OF GRADE BY GRADE COURSE SELECTIONS (Regular Diploma)**

9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ENGLISH 9 (2 semesters/2 credits)	ENGLISH 10 (2 semesters/2 credits)	ENGLISH 11 or AP/DMACC COURSE (2 semesters/2 credits)	COLLEGE PREP or APPLIED COMMUNICATION/DMACC (2 semesters/2 credits)
PHYSICAL SCIENCE (2 semesters/2 credits)	BIOLOGY (2 semesters/2 credits)	SCIENCE CHOICE (2 semesters/2 credits)	ELECTIVES (2 semesters/2 credits)
ALGEBRA I (2 semesters/2 credits)	MATH CHOICE (2 semesters/2 credits)	MATH CHOICE (2 semesters/2 credits)	ELECTIVES (2 semesters/2 credits)
WORLD HISTORY (2 semesters/2 credits)	ELECTIVES (2 semesters/2 credits)	AMERICAN HISTORY (2 semesters/2 credits)	AMERICAN GOVERNMENT (1 semester/1 credit)  ECONOMICS (1 semester/1 credit)
PE OPTION (2 semesters/1-.5 Credits)	PE OPTION (2 semesters/1-.5 Credits)	PE OPTION (2 semesters/1-.5 Credits)	PE OPTION (2 semesters/1-.5 Credits)
HEALTH (1 semester/1 credit)  ELECTIVE (1 semester/1 credit)	GOOGLE APPLICATIONS (1 semester/1 credit)  ELECTIVE (1 semester/1 credit)	ELECTIVES (2 semesters/2 credits)	ELECTIVE (2 semesters/2 credits)
ELECTIVES/STUDY HALL (2 semesters/1 credit)	ELECTIVES/STUDY HALL (2 semesters/1 credit)	ELECTIVES/STUDY HALL (2 semesters/1 credit)	ELECTIVES/STUDY HALL (2 semesters/1 credit)
ELECTIVES (2 semesters/2 credits)	ELECTIVES (2 semesters/2 credits)	ELECTIVE (2 semesters/2 credits)	ELECTIVE (2 semesters/2 credits)
<b>TOTAL = 14-14.5 credits</b>	<b>TOTAL = 14-14.5 credits</b>	<b>TOTAL = 14-14.5 credits</b>	<b>TOTAL = 14-14.5 credits</b>

\*Students are required to enroll in a minimum of six (6) academic classes each semester. Students are generally allowed only one daily study hall.

# FINE ARTS

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requisite?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
Drawing and Design	X	X	X	X	X		1	no
Painting	X	X	X	X	X		1	no
Ceramics	X	X	X	X	X		1	no
Photography	X	X	X	X	X		1	no
Art Studio			X	X	X		1	yes

## Drawing and Design

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** Students will learn about using and caring for various drawing media. Media studied will include graphite pencil, charcoal and ink. They will learn visual composition through the study of the elements of art and the principles of design. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts.

**Credit:** 1

**Semester:** Fall/Spring

**Required:** No

## Painting

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** Students will learn about using and caring for various painting media. Media studied will include watercolor, tempera, and acrylic paints. They will learn visual composition through the study of the elements of art and the principles of design. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts.

**Credit:** 1

**Semester:** Fall/Spring

**Required:** No

## Ceramics

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** Students will learn methods for creating art using clay media. The focus will be on pottery and vessels. Students will study hand-building techniques like coil, slab, spoon out and press mold methods, as well as the method for creating pottery that is thrown on the potter's wheel. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts.

**Credit:** 1

**Semester:** Fall/Spring

**Required:** No

## Photography

Grade: 9-12

Prerequisite: None

NCAA Clearinghouse: Not Approved

Credit: 1

Semester: Fall/Spring

Required: No

**Course Description:** Students will learn how to use cameras to take creative, artistic visual images. They will learn how to operate modern digital cameras, including how to control shutter speeds, ISO and F-stops. Students will study photographic composition using the elements of art and principles of design, as well as subjects like the golden mean, the rule of thirds, the rule of odds, etc. Students will also gain a basic understanding of post-shooting photographic manipulation using apps on their laptop. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts. It is suggested that students have a DSLR camera that they can use, but is not required.

## Art Studio

Grade: 11-12

Prerequisite:

Successful completion of previous high school art classes

NCAA Clearinghouse: Not Approved

Credit: 1

Semester: Fall/Spring

Required: No

**Course Description:** This advanced studio course is an extension to the basic program classes. It is intended for students that have successfully completed the entry-level classes. The class will allow students to create and express themselves using media of their own choosing. The student will coordinate with the teacher on projects, but the class will be largely student driven with the student demonstrating an ability to be self motivated and responsible for the content studied.

# LANGUAGE ARTS

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requirement?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
English 9	x					x	2	no
English 10		x				x	2	yes
English 11			x			x	2	yes
AP Language & Composition			x			x	2	yes
Applied Communications				x	x		1	yes
College Prep				x		x	2	yes
DMACC Communication Skills (COM703)				x	x		1	yes
Young Adult Literature	x	x	x	x	x		1	no
Journalism	x	x	x	x	x		1	no

Multicultural-Literature	x	x	x	x	x		1	no
--------------------------	---	---	---	---	---	--	---	----

\* Students must take either Applied Communications or College Prep in order to complete the portfolio requirement of graduation.

### English 9

**Grade:** 9

**Credit:** 2

**Prerequisite:** None

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** Yes

**Course Description:** The course work in English 9 includes work in composition (with an emphasis on argumentative and informative writing), grammar, editing, vocabulary, study skills, and goal setting. Students read and study *The 7 Habits of Highly Effective Teenagers* for non-fiction text study, as well as argumentative essays. The literature consists of short stories and poetry. Major works read are Shakespeare's *Romeo and Juliet*, and the novels *Of Mice and Men* and *To Kill a Mockingbird*.

### English 10

**Grade:** 10

**Credit:** 2

**Prerequisite:** English 9

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** Yes

**Course Description:** This course will be focusing on two thematic units: "Ourselves and Others" and "Absolute Power" that will dive into 10<sup>th</sup> grade reading, speaking, and writing standards as well college preparatory instruction in literature and composition. The literature included expands into various short stories, documents, newspapers, drama, and biographies as well as the study of two novels, which are selected by the students. The course also includes editing, vocabulary, and grammar skill development.

### English 11

**Grade:** 11

**Credit:** 2

**Prerequisite:** English 10

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** Yes or College Bound Eng 11

**Course Description:** This course provides a chronological approach to American literature with an emphasis on composition. Works read include historical non-fiction, short stories, poetry, and the novels *The Crucible*, *The Adventures of Huckleberry Finn*, and *The Great Gatsby and Black Like Me*. Additional coursework includes vocabulary, writing skills, grammar, editing, and speech. Students also continue to work toward completion of their portfolios/capstone project.

### AP English Language & Composition

**Grade:** 11

**Credit:** 2

**Prerequisite:** English 10\*

**Semester:** Year

\*B or higher in English 10 & teacher recommendation

**NCAA Clearinghouse:** Approved

**Required:** Yes or English 11

**Course Description:** Throughout this course, students read and analyze a broad and challenging range of nonfiction prose selections, deepening their awareness of rhetoric and how language works. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. For the purpose of developing tools that will focus close reading, students will study theory such as the Five Canons of Rhetoric, Modes of Discourse, the Rhetorical Diagram, Oration Model, and Toulmin. Students will be given the

opportunity to shape and develop their composition within the following written forms: narrative, expository, analytical, and argumentative essays. While analyzing and composing, students will read from multiple genres of writing including essays, journalism, political writing, science writing, nature writing, autobiographies/biographies, diaries, history, and criticism found in western society. Upon completion, this class will have prepared students to take the AP English Language and Composition Exam and may be granted college credit as a result of satisfactory performance.

### **Applied Communication**

**Grade:** 12

**Prerequisite:** English 11

**NCAA Clearinghouse:** Not Approved

**Course Description:** This course is designed for the student who will soon enter the workforce, attend vocational school, or a two-year college. Writing and editing skills are emphasized. Students also complete work in business communications, the skills required to obtain a job, and resume writing. Students complete a job shadow experience during this course and also complete their portfolios

**Credit:** 1

**Semester:** Fall

**Required:** Yes or College Prep

### **DMACC Communication Skills (COM703)**

**Grade:** 12

**Prerequisite:** Applied Communication

**College:** DMACC

**Course Description:** Reading, writing, speaking, and listening are studied as methods of exploring and evaluating technological advances in trade and industry. Adapting communication for different audiences, evaluating industry-related literature, and basic business writing are emphasized. Upon completion students will receive 3 college credits.

**Credit:** 1

**Semester:** Spring

**Required:** No

### **College Prep English**

**Grade:** 12

**Prerequisite:** AP Language and Composition

**NCAA Clearinghouse:** Approved

**Course Description:** This course focuses on college preparatory instruction in literature and composition. Typically, the Houghton Mifflin Textbook: Collection 12 will be used in guiding learning targets. The literature includes a study of drama, an extensive study of British literature including the Shakespearean drama *Hamlet* as well as contemporary study of the novels *Catcher in the Rye* and *The Namesake*. Writing activities include, but are not limited to, a position paper, a persuasive presentation, literary analysis, personal narrative, and a rhetorical analysis paper using MLA documentation style. The course also includes editing, vocabulary, and grammar skill development. A major project of the year is the completion of the senior portfolios with are presented in the spring.

**Credit:** 2

**Semester:** Year

**Required:** Yes or Applied Communications

### **Young Adult Literature**

**Grade:** 10-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** This class provides communication and enhanced writing skills to adequately convey thoughts and opinions towards the young adult literature that is read in class. The books read in class will include *Staying Fat for Sarah Brynes*, *Kindred*, *My Sister's Keeper*, and a few others to be decided through class discussions. Forms of current media such as segments from 20/20 and 60 minutes will provide current media discussions. The curriculum for this class is mainly built around discussions sparked by the literature read.

**Credit:** 1

**Semester:** Fall or Spring

**Required:** No

## Journalism

Grade: 9-12

Prerequisite: None

NCAA Clearinghouse: Not Approved

Credit: 1

Semester: Spring

Required: No

**Course Description:** Students will focus on learning the basics of planning, designing, and publishing a school newspaper. They will learn AP style format, how to write captions and headlines, basics of layout, design, and photography, interviewing skills, editing, and basic photography. Students will learn to meet multiple deadlines. Selling advertisements will be required in order to meet our semester-ending project of having a page published in the Tri-County Times. Prerequisites are: above average knowledge of word processing programs (Word, Google Docs), able to work with a team, exhibit excellent communication skills.

## Multicultural Literature

Grade: 9-12

Prerequisite: None

NCAA Clearinghouse: Not Approved

Credit: 1

Semester: Spring

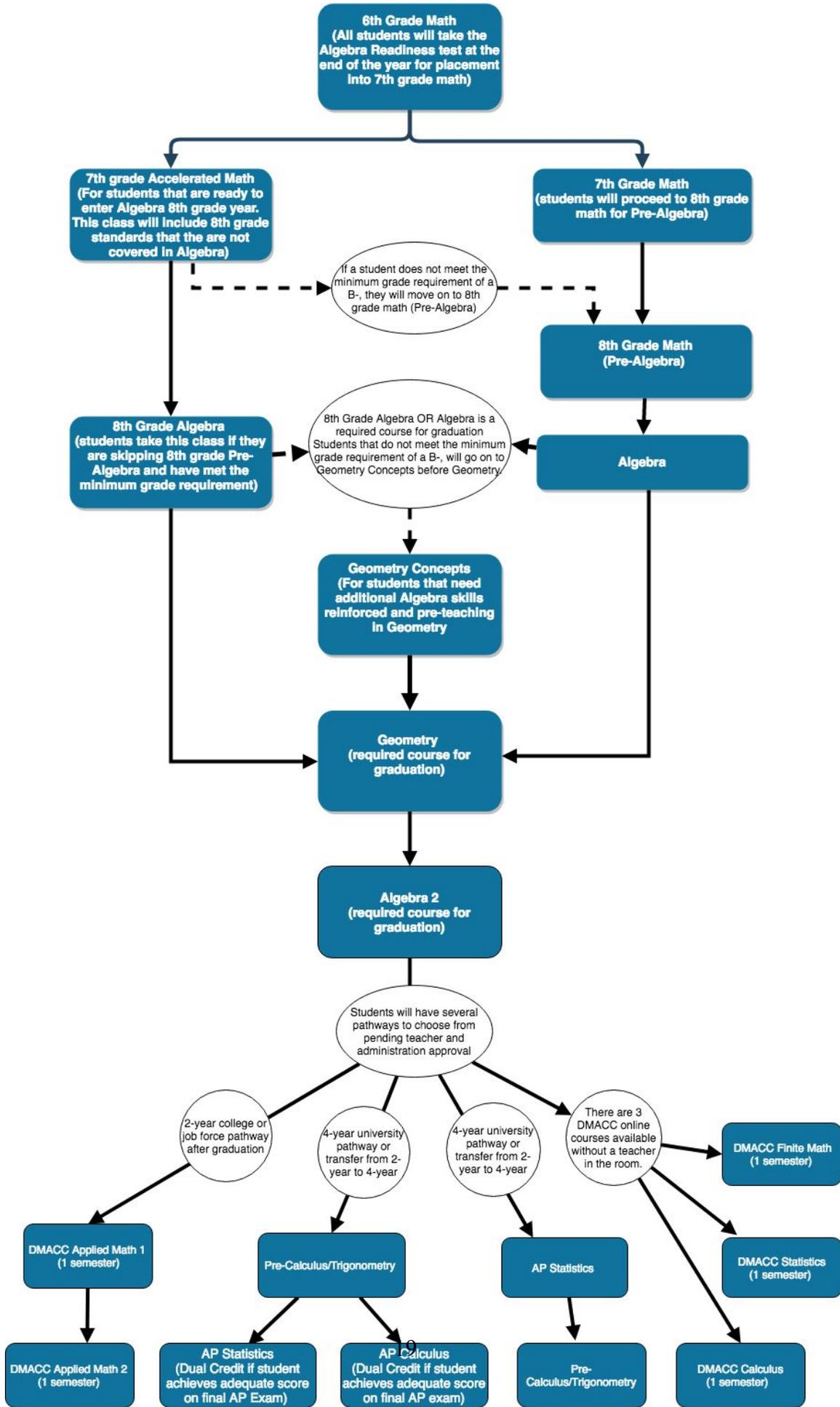
Required: No

**Course Description:** This course challenges students to push the boundaries of the conventional Language Arts class. Students will use various literary theories to examine literature and film for the purpose of discovering more about themselves and their world. Students will use writing as a vehicle to express their ideas and opinions. This course is designed around three units of study: Fault and Redemption, Social Injustice and Outside Influences. While studying these units, students will be introduced to: African-American Literature, Asian- American Literature, Native-American Literature, etc.

# MATHEMATICS

(If students received high school math credit while in middle school, they must still take three years of math in grades 9-12)

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requisite?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
Algebra I	x (8)	x				x	2	no
Geometry	x	x	x			x	2	yes
Geometry Concepts	x	x	x			x	2	yes
Algebra II		x	x	x		x	2	yes
Pre-Calculus/Trig			x	x		x	2	yes
DMACC Applied Math I (MAT772)			x	x	x		1	yes
DMACC Applied Math II (MAT773)			x	x	x		1	yes
AP Calculus AB			x	x		x	2	yes
AP Statistics			x	x		x	2	yes



## Algebra I

**Grade:** 8\*-9

**Credit:** 2

\*Students taking Algebra I in 8th grade must score an 80% or higher to count towards HS credit and will be moved to Pre-Algebra at the end of the first semester if they are not earning an 80% or higher.

**Prerequisite:** None

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** Yes

**Course Description:** This is an introduction to higher mathematics and provides the language for all of mathematics above arithmetic. Students will further their understanding of linear functions to include real world applications. Students will also learn about exponential and quadratic functions, through graphing, tables, and situations. This course provides excellent training in logical thinking and practical applications. Students will also utilize IXL math program for enrichment and the reteaching of topics.

## Geometry

**Grade:** 9-11

**Credit:** 2

\*If taking Algebra I as a middle school student must pass with 80% or higher to advance into geometry while in middle school.

**Prerequisite:** Algebra I\* or Basic Algebra II

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** Yes

**Course Description:** This course will be used to model real world situations. Some of the topics students will learn are: transformations of shapes on a graph and plane, triangle similarity, triangle trigonometry, volume and surface area, geometric proofs, circle geometry, geometric constructions and probability. Students will also utilize IXL math program for enrichment and reteaching of topics.

## Geometry Concepts

**Grade:** 9-11

**Credit:** 2

**Prerequisite:** Algebra I

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** No

**Course Description:** This course is designed for the student who is not ready to take a full Geometry Class. The math teacher, administration and school counselor will look at data from MAP and Iowa Assessments as well as the student(s) current grade in Algebra to determine placement. It is our suggestion that anyone with a C- or below in a full year of Algebra, take this course before proceeding into a full Geometry class. The class will include developmental hands-on activities and more guided practice with a foundation of geometry and integrated with algebra to reinforce those skills. Some topics covered will include angles, lines, triangles, area, volume, polygons, Pythagorean Theorem and real world applications.

## Algebra II

**Grade:** 10-12

**Credit:** 2

**Prerequisite:** Geometry

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** Yes

**Course Description:** Algebra II is a course is designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as advanced polynomials, imaginary and complex numbers, quadratics, exponential and logarithmic functions, rational and radical functions, probability, data analysis, sequences and series, as well as trigonometric concepts. The content of this course are important for students' success on both the ACT and college mathematics entrance exams. Students who complete Algebra II should take AP Statistics or Pre-Calculus next.

### **Pre-Calculus/Trigonometry**

**Grade:** 11-12

**Credit:** 2

**Prerequisite:** Algebra II with C or higher

**Semester:** Year

**NCAA:** Approved

**Required:** No

**Course Description:** This course focuses on analyzing exponential and logarithmic functions, trigonometric identities and equations, vectors and exploration of the derivative and integral in calculus. It will provide students with the background necessary for success in a calculus course.

### **DMACC Applied Math I (MAT772)**

**Grade:** 11-12

**Credit:** 1

**Prerequisite:** Geometry

**Semester:** Fall

**College:** Taught by Mrs. Hartgers for DMACC credit

**Required:** No

**Course Description:** A course in algebra and trigonometry for technicians. Topics covered include polynomials, equations, systems of linear equations, factoring, quadratic equations, trigonometry, powers, roots and logarithms.

### **DMACC Applied Math II (MAT773)**

**Grade:** 11-12

**Credit:** 1

**Prerequisite:** Applied Math I

**Semester:** Spring

**College:** Taught by Mrs. Hartgers for DMACC Credit

**Required:** No

**Course Description:** A course in algebra and trigonometry for technicians. Topics covered include polynomials, equations, systems of linear equations, factoring, quadratic equations, trigonometry, powers, roots and logarithms.

### **AP Statistics**

**Grade:** 11-12

**Credit:** 2

**Prerequisite:** Algebra II B or higher & teacher recommendation

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** No

**Course Description:** The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. College credit is awarded with an end of year exam score of 3, 4 or 5. Please check your college of choice for transfer credit.

### **AP Calculus AB**

**Grade:** 12

**Credit:** 2

**Prerequisite:** Pre Calculus/Trig B or higher & teacher recommendation

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** No

**Course Description:** AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. College credit is awarded with an end of year exam score of 3, 4 or 5. Please check your college of choice for transfer credit.

# SCIENCE

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requisite?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
Physical Science	x					x	2	no
Biology	x	x				x	2	yes
Chemistry			x	x		x	2	yes
Environmental Science			x	x		x	2	yes
Anatomy/Physiology		x	x	x		x	2	yes
Physics		x	x	x		x	2	yes
AP Chemistry			x	x		x	2	yes

## Physical Science

**Grade:** 9

**Prerequisite:** None

**NCAA Clearinghouse:** Approved

**Course Description:** Covers basic topics in physical science. The first semester is an introduction to chemistry including the structure of matter and reactions of matter. The second semester is an introduction to physics and space science including forces, motion, and energy.

**Credit:** 2

**Semester:** Year

**Required:** Yes

## Biology

**Grade:** 9-10

**Prerequisite:** Physical Science with a grade of C or higher

**NCAA Clearinghouse:** Approved

**Course Description:** Biology is the study of living organisms. We will be studying the subcellular level, cell biology, genetics, a survey of the kingdoms, and biosystems. We will also study the impact of changes in environment to living organisms. Labs will be conducted to exercise scientific method and to examine hands-on biological principles. Biology is a recommended route of study for college bound students.

**Credit:** 2

**Semester:** Year

**Required:** Yes

## Environmental Science

**Grade:** 11-12

**Prerequisite:** Physical Science & Biology

**NCAA Clearinghouse :** Approved

**Course Description:** The course is designed for students to study the interrelationships between organisms and their physical surroundings, focusing on the effects man has within the world ecosystem. Providing students with knowledge to evaluate choices that can reduce the negative impact man has made on the environment and optimize worldwide living standards. Emphasis is placed on the development of scientific principles, which allow students to identify and analyze environmental problems and associated risks. Students also examine solutions that can resolve/prevent ecological problems through critical and creative thinking skills.

**Credit:** 2

**Semester:** Year

**Required:** No

## **Chemistry**

**Grade:** 10-12

**Credit:** 2

**Prerequisite:** Biology, Algebra II (or taking simultaneously)

**Semester:** Year

Have earned a grade of C or higher

**NCAA Clearinghouse:** Approved

**Required:** No

**Course Description:** This is a fundamental course that includes the study of atomic theory, the periodic table, chemical bonding, and principles of chemical reactions. A good mathematics background is necessary. Calculators are required and lab goggles are provided. Lab techniques will be studied in depth.

## **Anatomy/Physiology**

**Grade:** 10-12

**Credit:** 2

**Prerequisite:** Chemistry (or taking simultaneously)

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** No

**Course Description:** Designed for students planning to attend college and who choose a major such as biology, nursing, or medicine. We will be studying from a sub-cellular level to the entire body. We will learn about the locations of structures, appearances of tissues and cells, and relationships between different organs and body components. We will also study the mechanisms that operate different activities in the body and how these are related to various human diseases.

## **Physics**

**Grade:** 11-12

**Credit:** 2

**Prerequisite:** Algebra II, Chemistry, Pre Calc/Trig (or taking simultaneously)

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** No

**Course Description:** Physics is designed for students intending to pursue studies in science related areas such as engineering, health sciences, architecture, pharmacy, materials science, etc. The course will focus on the applications to the physical world through exploratory investigations and activities.

Using laboratory investigations, physics will focus on: linear motion, two dimensional motion, laws of motion, force, momentum and collisions, work and energy, rotational motion, gravitational interactions, matter, thermodynamics, waves, sound, light and color, electricity and magnetism. Emphasis will be placed on appreciating physics as a human endeavor to understand the concepts, theories, and laws governing the interaction of matter, energy, and forces as well as encouraging application of physics to common life experiences. Calculators are required.

## **AP Chemistry**

**Grade:** 11-12

**Credit:** 2

**Prerequisite:** B or higher in Chemistry & teacher recommendation

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** No

**Course Description:** AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. College credit is awarded with an end of the year exam score of 3, 4 or 5. Please check your college of choice for transfer credit

# SOCIAL STUDIES

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requisite?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
World History	x	x				x	2	no
American History			x			x	2	no
Modern U.S. History		x	x	x	x		1	no
Modern U.S. History II		x	x	x	x		1	yes
Civics	x	x	x		x		1	no
Geography	x	x	x	x	x		1	no
Law & Society	x	x	x	x	x		1	no
American Government	x	x	x	x	x		1	no
Economics	x	x	x	x	x		1	no
Sociology	x	x	x	x	x		1	no
Psychology	x	x	x	x	x		1	no
DMACC National Government			x	x	x		1	yes
AP U.S. History	x	x	x	x	x		2	yes
Current Events	x	x	x	x	x		1	no
Character and Leadership			x	x	x		1	no

## American History

**Grade:** 11

**Prerequisite:** None

**NCAA Clearinghouse:** Approved

**Credit:** 2

**Semester:** Year

**Required:** Yes

**Course Description: Course Description:** This course provides a one-year survey of American history from the Colonial Period and the American Revolution to the present day, with an emphasis on the twentieth century. Using the textbook and primary documents and current events, students learn about the various political, social, religious, and economic developments that have shaped and continue to shape the United States. Creating a project for National History Day for the second semester will be a requirement.

## **Ancient (World History) & Contemporary World History**

**Grade:** 9 or 10

**Prerequisite:** None

**NCAA Clearinghouse:** Approved

**Course Description:** Study the development of both western and eastern civilization. This course provides a comprehensive treatment of ancient and medieval history and gives in-depth coverage of modern history.

**Credit:** 2

**Semester:** Year

**Required:** Yes

## **Modern U.S. History: The 60's, 70's & 80's**

**Grade:** 10-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** This is a course that is designed as a "glimpse into the lives of the Baby Boomer generation" with an emphasis on the culture of the three decades. It is an opportunity for students to look into the lives of their parents and grandparents.

**Credit:** 1

**Semester:** Fall

**Required:** No

## **Modern U.S. History: The 60's, 70's & 80's II**

**Grade:** 10-12

**Prerequisite:** Modern U.S. History

**NCAA Clearinghouse:** Not Approved

**Course Description:** This course will dive further into depth the events that shaped these three decades. More focus is given to political events, for example the Cuban Missile Crisis, Watergate and the Cold War. Students will develop an understanding of how these have an impact on our lives today.

**Credit:** 1

**Semester:** Spring

**Required:** No

## **Civics**

**Grade:** 9-11

**Prerequisite:** None

**NCAA Clearinghouse:** Approved

**Course Description:** About people and how they govern themselves. Includes biographical information on politics, citizenship, government, the constitution, civil rights, political parties, elections, and current social problems, as well as current events.

**Credit:** 1

**Semester:** Spring

**Required:** No

## **Geography**

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Approved

**Course Description:** In this course, students will study the physical geography and human characteristics of the Earth and how they interact with each other. A major focus will be on US geography and map skills.

**Credit:** 1

**Semester:** Fall or Spring

**Required:** No

## **Law & Society**

**Grade:** 10-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not approved

**Course Description:** This course is designed to provide students with an understanding of your legal rights and responsibilities, a knowledge of every-day legal problems, and the ability to analyze, evaluate, and , in some situations, resolve legal disputes. During the course of the semester, we will address general problems in the areas of criminal and juvenile justice, torts, consumer, family, housing, and law.

**Credit:** 1

**Semester:** Spring

**Required:** No

## **American Government**

**Grade:** 12

**Prerequisite:** None

**NCAA Clearinghouse:** Approved

**Credit:** 1

**Semester:** Fall or Spring

**Required:** Yes

**Course Description:** This course covers information essential to understanding the nature of the American system of government. Study is based on the assumption that government at every level in the United States is "government of the people, by the people, and for the people." Students will participate in the annual Know Your Constitution program in connection with the Iowa Bar Association.

## **Economics**

**Grade:** 12

**Prerequisite:** None

**NCAA Clearinghouse:** Approved

**Credit:** 1

**Semester:** Fall or Spring

**Required:** Yes

**Course Description:** Economics examines two basic areas: 1) consumer economics; including budgeting, consumer spending and saving, and the laws and organizations to help the consumer, and 2) fundamental economic theory, including microeconomics and macroeconomics with emphasis on supply and demand, the U.S. economy, free market systems, the stock market and the Federal Reserve. This class does a real world simulation and a self-guided financial literacy course online in connection with Everfi. ***This course meets the Financial Literacy State requirement***

## **Sociology**

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Approved

**Credit:** 1

**Semester:** Spring

**Required:** No

**Course Description:** This course illustrates how the groups, or social structures, that one belongs to have a profound influence on the way you think, feel, and act. Sociology looks at groups rather than individuals. Major themes include deviance and social control, inequalities of gender and age, family and marriage, and social issues surrounding modern sport.

## **Psychology**

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Approved

**Credit:** 1

**Semester:** Fall

**Required:** No

**Course Description:** This course focuses on the study of human behavior. As an introduction to the field of psychology, this is an Elective Course that includes consideration of psychological principles, terminology, major theories, careers, methods of experimentation, and practical applications. Special topics include personality development, problem solving, group dynamics, and motivation.

## **DMACC American National Government (POL111)**

**Grade:** 11-12

**Prerequisite:** B or higher in World History

**College:** Taught by Mr. Haus for DMACC credit

**Credit:** 1

**Semester:** Fall or Spring

**Required:** No

**Course Description:** This course focuses on the American political system and how and why the citizenry relate to the government as they do. Emphasis is placed upon the organization and functioning of the presidential, legislative and judicial subsystems.

**AP United States History** (Please check your college of choice for transfer credit)

**Grade:** 11-12

**Credit:** 2

**Prerequisite:** B or higher in World History and prior year English plus teacher recommendation

**Semester:** Year

**NCAA Clearinghouse:** Approved

**Required:** No

**Course Description:** The AP U.S. History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students abilities to think conceptually about U.S. history from approximately 1491 to the present. Seven themes of equal importance — American and National Identity; Migration and Settlement; Politics and Power; Work, Exchange, and Technology; America in the World; Geography and the Environment; and Culture and Society — provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. The course also allows flexibility across nine different periods of U.S. history to teach topics of their choice in depth. College credit is awarded with an end of the year exam score of 3, 4 or 5.

**Current Events**

**Grade:**9-12

**Credit:** 1

**Prerequisite:** None

**Semester:** Fall

**NCAA Clearinghouse:?**

**Required:** No

Using current events, this course focuses on world and local issues that affect students' everyday lives, such as economics, government and conflict. This course uses online media, and newscasts to support class discussion. Additionally students participate in group projects, presentations and work with primary source materials and opinion pieces in order to better understand the world around them.

**Character & Leadership**

**Grade:**11-12

**Credit:** 1

**Prerequisite:** None

**Semester:** Spring

**NCAA Clearinghouse:?**

**Required:** No

In this course students will focus on characteristics and traits that they will come up with as a group to help them become better leaders in school, the community and throughout life outside of school.

# FAMILY AND CONSUMER SCIENCE

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requisite ?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
Nutrition & Wellness	x	x	x	x	x		1	no
Culinary Arts	x	x	x	x	x		1	yes
Child Development	x	x	x	x		x	2	no
Human Relationships & Family Structures	x	x	x	x	x		1	no
Housing, Textiles & Design	x	x	x	x	x		1	no

## Nutrition and Wellness

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Credit:** 1

**Semester:** Fall

**Required:** No

**Course Description:** This course is designed to prepare students to become self-sufficient in the kitchen in all aspects from planning, preparation, and nutrition. Food, nutrition, and wellness continually change to reflect the realities of today's world. Teens need to find time for healthy meals in a tightly scheduled day, as they sort through ever-expanding options and advertisements. This class will teach students how to make healthy and informed food related decisions that contribute to wellness over their lifetime. The first half of the course is dedicated to basic cooking techniques and safety/sanitation in the kitchen while cooking with grains, fruits, vegetables, protein, and dairy products. The second half of the course connects the culinary concepts with nutrition and meal management in preparing wholesome, nutrient-rich recipes. Labs are incorporated weekly allowing students to apply what they have learned.

## Culinary Arts

**Grade:** 9-12

**Prerequisite:** Nutrition & Wellness

**NCAA Clearinghouse:** Not Approved

**Credit:** 1

**Semester:** Spring

**Required:** No

**Course Description:** This course focuses on the basics of the food service and hospitality industry. Students will learn advanced safety and sanitation procedures based on ServSafe guidelines, learn intricate knife cuts, practice advanced food preparation techniques, experiment with a variety of herbs/spices, and explore careers in the culinary industry. Additional topics may include regional and ethnic food options, menu planning, mise en place, plating techniques, baking/pastry arts, and much more! Students will be eligible to become ServSafe Manager certified! Labs are incorporated weekly allowing students to apply what they have learned.

## **Child Development**

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not approved

**Credit:** 2

**Semester:** Year

**Required:** No

**Course Description:** Do you have an interest in working with children for a future career? Do you think you may become a parent someday? This course takes a closer look at child development from conception to young adulthood. We will explore physical, intellectual, social, emotional, and moral development of infants, toddlers, school age children and beyond! Students will learn ages and stages of growing children, child safety, childcare options, effective disciplinary techniques, and creative child friendly activities and snacks. Developmental theorists will be examined and incorporated into each stage of development.

## **Human Relationships and Family Structures**

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Credit:** 1

**Semester:** Fall

**Required:** No

**Course Description:** Do you think about having a family someday? Do you plan to have a career that relates to human services where you will be working with families, children, or people in general? Do you want to learn about current family dynamics? If so, this course is for you! Students will discuss important aspects of human relationships such as positive communication, conflict resolution, identifying healthy vs. unhealthy relationship qualities, dating violence/abuse/sexual assault. engagement/marriage, and family roles. Additional topics may include reproductive health, pregnancy and prenatal development, labor and delivery, parenting, and the ever-changing family structure.

## **Housing, Textiles, and Design**

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Credit:** 1

**Semester:** Spring

**Required:** No

**Course Description:** This class is divided into two unique areas. The first half of this course will focus on housing and interior design. We will discuss the need for housing, along with the impact of design, furniture, floors plans, and much more! Activities will focus on the selection and planning of designed spaces to meet needs, wants, values and lifestyles in order to create safe, functional and pleasing spaces. Possible course topics include housing types, architectural design, interior design, furniture styles and arrangement, and the application of the elements and principles of design. The second half of this course focuses on textiles, sewing, and design. This area is almost 100% hands-on learning, where students explore a variety of sewing techniques. Possible topics include color schemes, the elements and principles of design, and fabric and fiber types. Students will apply these design basics into a variety of projects that include skills such as hand-stitching, machine stitching, and knitting. Students will have the opportunity to create clothing and other textile items, read and apply pattern directions to garment construction, and will become environmentally conscious in their textile choices. The information learned in this class can applied in the home setting but will also apply to students who have interest in pursuing a career in this area!

# BUSINESS & TECHNOLOGY

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requisite?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
Accounting I		x	x	x		x	2	no
Career Development Skills DMACC ADM 221			x	x	x		1	no
Publications and Photo Editing DMACC BCA 242			x	x	x		1	yes
Business Engagement Collaborative DMACC ADM 221 and ADM 936			x	x		x	2	no
Financial Literacy	x	x	x	x	x		1	no
Introduction to Business	x	x	x	x	x		1	no
Sports and Entertainment Marketing	x	x	x	x	x		1	yes
Yearbook I & 2	x	x	x	x	x	x	1-2	yes (II)
Google Applications	x	x			x		1	no
Web Design	x	x	x	x	x		1	no
Advanced Computers		x	x	x	x		1	yes

## Accounting I

**Grade:** 10-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** Accounting I will give students a background in the basic accounting procedures used to operate a business. Students will learn accounting procedures for sole proprietorships, partnerships, and corporations. Simulations and real world scenarios will also be used for this course.

**Credit:** 2

**Semester:** Year

**Required:** No

## Career Development Skills (DMACC ADM 221)

**Grade:** 11-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** Covers all aspects of professional job placement procedures including career goal setting, developing prospective employer lists, resume writing, job application forms, employment tests, personal appearance, interviewing and follow-up.

**Credit:** 1

**Semester:** Fall

**Required:** No

### **Publications and Photo Editing (DMACC BCA 242)**

**Grade:** 11-12

**Prerequisite:** Google Apps

**NCAA Clearinghouse:** Not Approved

**Course Description:** In a PC environment, apply principles of publication design in development of professional marketing pieces. Use image-enhancement software to manipulate photo and graphic files. Convert files into web-ready format.

**Credit:** 1

**Semester:** Spring

**Required:** No

### **Business Engagement Collaborative (DMACC ADM 221 and ADM 936)**

**Grade:** 11-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** This innovative course is a chance for students to begin exploring their various areas of interest while completing real projects for businesses around the community. Gain hands on experience and boost the “soft skills” that employers are looking for! Students are guided by coordinated efforts of the employer/supervisor and the instructor. Students who enter this program will also earn DMACC credit by concurrently taking the **Career Development Skills (DMACC ADM221) and Occupational Experience (DMACC ADM936)** courses. Application is required through Ms. Berry or Ms. Martin

**Credit:** 2

**Semester:** Year

**Required:** No

### **Financial Literacy**

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** This course will teach students everything they need to know about spending money wisely, banking, saving, investing, and using credit. This class will attempt to improve the national trends of irresponsible use of credit and lack of savings and investments. This class is useful for any student who will soon be in charge of their own financial well-being. Simulations and real world scenarios will also be used for this course.

**Credit:** 1

**Semester:** Fall or Spring

**Required:** No

### **Introduction to Business**

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** This course will introduce students to the exciting and challenging world of business. Students will be more prepared as knowledgeable consumer, well-prepared employee, and effective citizen of our economy. This course will serve as a background for other business courses students will take in high school and in college, as well as prepare them for future employment or business ownership.

**Credit:** 1

**Semester:** Fall

**Required:** No

### **Sports and Entertainment Marketing**

**Grade:** 9-12

**Prerequisite:** Introduction to Business

**NCAA Clearinghouse:** Not Approved

**Course Description:** In this course, students will learn how marketing works in movies, sports venues, music, sports teams and television. Topics included are branding, licensing and naming rights, business foundations, concessions and on-site merchandising, economic foundations, human relations, and safety/security. Simulations and real world scenarios will also be used for this course.

**Credit:** 1

**Semester:** Spring

**Required:** No

## **Yearbook I & II**

**Grade:** 10-12

**Prerequisite:** Instructor Approval

**NCAA Clearinghouse:** Not Approved

**Credit:** 2

**Semester:** Semester/Year

**Required:** No

**Course Description:** Students work collaboratively by using technology such as digital cameras, photo editing software and Adobe InDesign or online design software to digitally produce a yearbook. Students use writing skills, communication skills and creativity to tell the story of the school community and peers in an engaging way. Students demonstrate knowledge of graphic design and think creatively when organizing information. In this college and career ready course, students think critically to meet deadlines, track to goals and utilize multimedia to market and disseminate information that aligns with and models an actual business.

## **Google Applications**

**Grade:** 9 or 10

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Credit:** 1

**Semester:** Fall or Spring

**Required:** Yes

**Course Description:** The course will focus on Google Applications which students will be expected to use in their high school classes. Emphasis will be on Google Drive, Mail, Docs, Sheets, Slides and Forms. Students will use online resources for research purposes and a review of keyboarding skills will also be covered.

## **Web Design**

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Credit:** 1

**Semester:** Fall/Spring

**Required:** No

**Course Description:** This course is an introduction to the theory and application of Web Page Design, with particular emphasis on design elements involving layout, navigation, and interactivity. Students will produce several different types of Web Pages. Students will learn about the role web pages play in society and help prepare students for higher education or jobs in the technology field. The students may be working with local businesses and/or the school to help with updating or creating web sites.

## **Advanced Computers**

**Grade:** 10-12

**Prerequisite:** Introductory Comp Apps 1 or Google Applications

**NCAA Clearinghouse:** Not Approved

**Credit:** 1

**Semester:** Fall/Spring

**Required:** No

**Course Description:** This course is designed to explore the digital media world. Students will be learning how to use different mediums such as and not limited to: iMovie, iTunes, YouTube, GarageBand, Pinnacle movie software, Google, etc.. Students will complete a series of projects and gain a better understanding of how to use digital cameras, scanners, and digital video to create slideshows, videos, and DVD movies.

# AGRICULTURE

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requisite?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
Intro to Agriculture	X	X	X	X	X		1	no
Animal Care & Production	X	X	X		X		1	yes
Survey of the Animal Industry DMACC AGS 114		X	X	X	X		1	yes
Agribusiness Management DMACC AGB 331	X	X	X	X	X		1	yes
Natural Resources I		X	X	X	X		1	yes
Natural Resources II		X	X	X	X		1	yes
Innovations in Agriculture		X	X	X	X		1	yes
Plant Science		X	X	X	X		1	yes
Ag Welding		X	X	X	X		1	yes
Ag Shop I			X	X	X		1	
Ag Shop II			X	X	X		1	

## Introduction to Agriculture

**Grade:** 9-12

**Credit:** 1

**Prerequisite:** None

**Semester:** Fall

**NCAA Clearinghouse:** Not Approved

**Required:** No

**Course Description:** Opportunities for employment in areas of agriculture including: business, sales and service, production agriculture, horticulture, natural resources, mechanics, and products and processing are explained through practical, hands-on experiences, trips, and activities.

## Animal Care & Production

**Grade:** 9-12

**Credit:** 1

**Prerequisite:** Introduction to Agriculture

**Semester:** Spring

**NCAA Clearinghouse:** Not Approved

**Required:** No

**Course Description:** Care, nutrition, handling, and nomenclature of domestic livestock and pets comprise this course. Meat evaluation, nomenclature, and quality are explored.

### **DMACC Survey of the Animal Industry (AGS114)**

**Grade:** 10-12

**Credit:** 1

**Prerequisite:** Animal Care & Production

**Semester:** Fall

**NCAA Clearinghouse:** Not Approved

**Required:** No

**Course Description:** An analysis of the livestock industry with emphasis on reproduction, inheritance, performance testing, selection and marketing.

### **DMACC Agribusiness Management (AGB331)**

**Grade:** 9-12

**Credit:** 1

**Prerequisite:** Animal Care & Production

**Semester:** Spring

**NCAA Clearinghouse:** Not Approved

**Required:** No

**Course Description:** A study of the role and organization of several aspects of agribusiness including financial management and control, marketing, operation and resource management.

### **Ag Shop I and II**

**Grade:** 11-12

**Credit:** 2

**Prerequisite:** Ag Shop I required for Ag Shop II

**Semester:** Fall and Spring

**NCAA Clearinghouse:** Not Approved

**Required:** No

**Course Description:** This class will provide students with skills to help design and build wood or metal projects. The class will cover basics of creating plans and reading plans according to specifications. Students will learn about various tools and tool safety. Students will work with projects that are assigned and will be graded. Students will have time to work on a final large metal or wood project. Projects are from plans or can be a refurbishing project. When a final project is completed, another project will be in place as time permits.

### **Natural Resources I and II**

**Grade:** 10-12

**Credit:** 2

**Prerequisite:** None

**Semester:** Fall and Spring

**NCAA Clearinghouse:** Not Approved

**Required:** No

**Course Description:** This class will cover the basics of defining natural resources and how to properly manage them. Emphasis will be placed on how to care for land and preserve the environment. Other areas covered include: hunting, trapping, agriculture, taxidermy, building wildlife nesting structures, and forestry.

### **Innovations in Agriculture**

**Grade:** 10-12

**Credit:** 1

**Prerequisite:** None

**Semester:** Spring

**NCAA Clearinghouse:** Not Approved

**Required:** No

**Course Description:** Use of technologies involved with soil structures, erosion control, testing, and fertility are incorporated into lab experiences. A natural resources unit discusses agriculture and wildlife. Modern livestock techniques in embryo transfer and artificial insemination are explained. Mechanical innovations are also explored.

### **Plant Science**

**Grade:** 10-12

**Credit:** 1

**Prerequisite:** None

**Semester:** Fall

**NCAA Clearinghouse:** Not Approved

**Required:** No

**Course Description:** This course introduces students to basic horticulture. Includes plant anatomy and physiology, plant classification and identification, and basic plant care.

## Ag Welding

**Grade:** 10-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** Students will learn the fundamentals of SMAW, GMAW, oxy-fuel cutting, and Plasma Arc Cutting. Students will also learn about business aspects of the welding business.

**Credit:** 1

**Semester:** Fall

**Required:** No

## MUSIC

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requisite?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
Vocal Music	X	X	X	X		X	1	no
Instrumental Music	X	X	X	X		X	1	yes
Vocal and Instrumental Music	X	X	X	X		X	2	yes
Music Theory	X	X	X	X	X		1	no

**Vocal Music** - meets Tuesdays, Thursdays and every other Friday (alternates with PE, study hall or instrumental music in the combination option below)

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** Mixed choir with opportunities for small group and solo work. Students are required to perform in the Dinner Theater, two concerts, large group contest, and the musical chorus or role. Class requirements include private lessons, concert attendance, music literacy, etc. There will be some required rehearsals outside the school day. Honor and festival choir opportunities are available.

**Credit:** 1

**Semester:** Year

**Required:** No

**Instrumental Music** - meets Mondays, Wednesdays and every other Friday (alternates with PE, study hall or vocal in the combination option below)

**Grade:** 9-12

**Prerequisite:** MS Band or Instructor Approval

**NCAA Clearinghouse:** Not Approved

**Course Description:** Students will develop performance skills on their various wind or percussion instruments, get acquainted with music theory/history, and how history and musical composition relate to students' lives and musical experience. Students will participate in concert, marching and pep bands. Students are required to perform in three concerts and at large group contest. Attendance is required at all home football and basketball games. A weekly lesson book will be used to develop individual skills. Opportunities to participate in honor bands and Solo and Ensemble contest will be available.

**Credit:** 1

**Semester:** Year

**Required:** No

**Vocal & Instrumental Music Combination** - meets daily (must also take a full year of weight & speed)

**Grade:** 9-12

**Course Description:** This option allows students to enroll in both vocal and instrumental music.

**Credit:** 2

## Music Theory

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** This course develops a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. Topics include: Musical terminology, notational skills, basic compositional skills, musical analysis, and aural skills.

**Credit:** 1

**Semester:** Semester

**Required:** No

## WORLD LANGUAGE

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requirement?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
Spanish I	x	x	x	x		x	2	no
Spanish II		x	x	x		x	2	yes
Spanish III			x	x		x	2	yes
Spanish IV				x		x	2	yes

*\* Colleges have different admission requirements regarding world language and students should check on specific college requirements. Most two year colleges do not require world language while most four year colleges require two to three years of the **same** world language in high school.*

### Spanish I

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Approved

**Course Description:** This class is focused on students being able to use Spanish. The best way to do that is to listen to Spanish. Students will focus on their listening skills and ability to understand. There will be lots of comprehensible input using stories, video, music and games that enhance acquisition. Students will read and listen to Spanish from the beginning. Grammar will be embedded in the most frequently used language structures in the Spanish language. Culture will also be embedded in the language lessons.

**Credit:** 2

**Semester:** Year

**Required:** No

### Spanish II

**Grade:** 10-12

**Prerequisite:** C or higher in Spanish I

**NCAA Clearinghouse:** Approved

**Course Description:** Is a continuation of Spanish I. Students will add more high frequency language structures to their vocabulary. Students will engage in interactive activities that assist in negotiating meaning of language forms. Stories, videos, music and games will continue to be employed during the course. Culture topics will continue to be embedded in the Spanish language learning process.

**Credit:** 2

**Semester:** Year

**Required:** No

### Spanish III

**Grade:** 11-12

**Prerequisite:** C or higher in Spanish II

**NCAA Clearinghouse:** Approved

**Course Description:** Spanish III will become more intensive. Students will be expected to speak Spanish most of the time. Students will continue to build their vocabulary and learn more explicit grammar topics. Students will create projects that demonstrate their understanding of various vocabulary structures. Culture items will focus on Latin America.

**Credit:** 2

**Semester:** Year

**Required:** No

### Spanish IV

**Grade:** 12

**Prerequisite:** C or higher in Spanish III

**NCAA Clearinghouse:** Approved

**Course Description:** Spanish IV will begin to focus more on Spanish literature. Students will continue to build their vocabulary and understanding of explicit grammar topics. Writing, speaking, listening and reading skills will continue to be developed. Cultural themes will focus on Spain.

**Credit:** 2

**Semester:** Year

**Required:** No

## HEALTH & PHYSICAL EDUCATION

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requirement?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
PE: Monday & Wednesday	x	x	x	x		x	.5	no
PE: Tuesday & Thursday	x	x	x	x		x	.5	no
Weight & Speed	x	x	x	x		x	1	no
Health 1	x	x			x		1	yes
Health 2	x	x	x	x	x		1	yes

### Monday/Wednesday or Tuesday/Thursday PE

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** This class will focus on team building and fitness activities. The classes will use team activities like football, volleyball, basketball, wrestling, and softball. We will also do fitness testing. In this class, students will learn how to maintain a healthy lifestyle. Activities will include fitness testing, disc golf, aerobics, dance, weight training, and other activities that can be done after graduation.

**Credit:** .5

**Semester:** Year

**Required:** No

## Weight & Speed PE

**Grade:** 9-12

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** Students will focus on increasing strength, power, agility, and speed. The students will weight train on Monday, Wednesdays and Fridays. Tuesdays and Thursdays would consist of speed and agility training. Students would spend five days a week in PE.

**Credit:** 1

**Semester:** Year

**Required:** No

## Health 1

**Grade:** 9-10

**Prerequisite:** None

**NCAA Clearinghouse:** Not Approved

**Course Description:** Students in Health will explore a variety of topics that contribute to overall health and wellness throughout a student's lifetime. The World Health Organization states "Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity." This course will provide information regarding healthy decision-making based on current and relevant health information. Areas to be covered include dimensions of wellness, emotional health, mental health/suicide awareness, nutrition/fitness, alcohol, tobacco, drugs, reproductive health, emergency care, and more!

**Credit:** 1

**Semester:** Fall or Spring

**Required:** Yes

## Health 2

**Grade:** 9-12

**Prerequisite:** Health I

**NCAA Clearinghouse:** Not Approved

**Course Description:** This course will look beyond the basic physical, mental, and social health topics. These three areas will be individually evaluated into how these all impact your world. Emphasis will be placed on becoming "health literate" as current events will often be discussed. The healthcare field will be explored and students will have an opportunity to research about a potential career.

**Credit:** 1

**Semester:** Spring

**Required:** No

## MISCELLANEOUS

Course Title	Offered to students in:				Class Length is:		Total Credit	Pre-Requisite?
	Grade 9	Grade 10	Grade 11	Grade 12	One Semester	Year Long		
Work Experience			X	X	X		.5	yes

## Work Experience

**Grade:** 11-12

**Prerequisite:** Teacher/Counselor Approval, successful pre-placement interview, chosen career pathway position availability, job shadow experience, own transportation

**NCAA Clearinghouse:** Not Approved

**Course Description:** Students will experience actual working conditions in an occupation within their chosen career pathway. Placement will be coordinated by the school and will be with non-family members or relatives. Current employment will not be considered. Students will have to sign and abide by a "Student Agreement," prior to and during this work experience. Additional documentation will be required.

**Credit:** 1

**Semester:** Fall or Spring

**Required:** No

## COURSE OFFERINGS - OFF CAMPUS

### DMACC Career Academy Classes

All classes take place at the Hunziker Center in Ames unless otherwise noted. Students will need to find their own transportation to and from the center. Three class periods a day will be blocked out of their schedule to allow for transportation and class times.

#### Auto Collision

**Grade:** 11-12

**Prerequisite:** None

**College:** DMACC- Hunziker Center

**Course Description:** Introduces students to the highly technological auto collision industry. Students gain experience in the areas of basic shop operations and procedures, welding, painting, and shop safety.

**Credit:** 4 College/2 HS Per Semester.

**Semester:** Year

**Required:** No

#### Auto Technology

**Grade:** 11-12

**Prerequisite:** None

**College:** DMACC- Hunziker Center

**Course Description:** Designed to prepare students for employment in the high technology automotive service industry. Students gain experience with shop tools, automotive engines, brakes, suspension and alignment.

**Credit:** 4 College/2 H.S. Per Semester

**Semester:** Year

**Required:** No

#### Career Work Experience

**Grade:** 11-12

**Prerequisite:** None

**College:** DMACC- Ames

**Course Description:** Students will explore different career options, learn about job placement procedures and participate in seminar that examines current work trends and issues. All students are given the opportunity to receive work experience (minimum of 10 hours/week) in various industries and businesses.

**Credit:** 4 College/2 H.S. Per Semester

**Semester:** Year

**Required:** No

#### Building Trades\*

**Grade:** 11-12

**Prerequisite:** None

**College:** DMACC- Ames

**Course Description :** This program allows students to work with an emphasis in the area of construction trades and carpentry. Students work on a job site to complete the construction of a house. \*Transportation is provided for students if needed.

**Credit:** 4 College/2 H.S. Per Semester

**Semester:** Year

**Required:** No

#### Certified Nurse Assistant

**Grade:** 12

**Prerequisite:** None

**College:** DMACC Nevada and Ames

**Course Description:** This is a semester-long certification program for students interested in becoming a CNA.

**Credit:** 2 College/ 1 H.S Per Semester

**Semester:** Fall or Spring

**Required:** No

#### Culinary Arts

**Grade:** 11-12

**Prerequisite:** None

**College:** DMACC- Hunziker Center

**Course Description:** Through hands-on experience, students are introduced to the scientific principles used in food preparation, the hospitality industry, and fundamentals of dining and sanitation.

**Credit:** 4 College/ 2 H.S Per Semester

**Semester:** Year

**Required:** No

## **Criminal Justice**

**Grade:** 11-12

**Prerequisite:** None

**College:** DMACC- Ames

**Course Description:** Students will explore the criminal justice system and the roles it plays in society; learn techniques, principles, problems, sources of information and evidentiary processes of criminal investigation; examine ethical uses of discretion; analyze officer stress and popular perceptions of the criminal justice system; and work in a lab to gain experience with fingerprinting and crime scene investigation.

**Credit:** 4 College/ 2 H.S. Per Semester

**Semester:** Year

**Required:** No

## **Fashion Design (APP260)/#577**

**Grade:** 11-12

**Prerequisite:** None

**College:** DMACC- Ames HS

**Course Description:** Emphasis is on how the fashion business works, from concept to consumer. Students will learn the basics of buying supplies, creating and developing a new product, and marketing the product. Focus is on analyzing styles and creating and implementing the principles of design into product development as well as researching past and present designers to understand their contribution to fashion.

**Credit:** 2 College/ 1 H.S. Per Semester

**Semester:** Fall

**Required:** No

## **Health Occupations**

**Grade:** 11-12

**Prerequisite:** None

**College:** DMACC- Mary Greeley Hospital Ames

**Course Description:** This year long program will provide students the opportunity to explore careers in health care and work toward CAN training. \*Courses require extended lab time in the evening.

**Credit:** 4 College/ 2 H.S. Per Semester

**Semester:** Year

**Required:** No

## **Information Technology/Network Administration**

**Grade:** 11-12

**Prerequisite:** Computer Applications I & II

**College:** DMACC- Hunziker Center

**Course Description:** Students are provided with a foundation in the basic technologies of computer networking and will work with the beginning coursework in hardware and software maintenance.

**Credit:** 4 College/ 2 H.S. Per Semester

**Semester:** Year

**Required:** No

## **Teacher Academy**

**Grade:** 11-12

**Prerequisite:** None

**College:** DMACC- Hunziker Center

**Course Description:** Students will experience a introduction to the education field through in class learning and on-site field experiences at the elementary, middle school and high school level.

**Credit:** 4 College / 2 H.S Per Semester

**Semester:** Year

**Required:** No

## **Visual Communications (Graphic Design/Web)**

**Grade:** 11-12

**Prerequisite:** Computer Applications I & II

**College:** DMACC- Hunziker Center

**Course Description:** Students will learn the basics of creating a web page along with computer graphics using multiple software packages.

**Credit:** 4 College/ 2 H.S Per Semester

**Semester:** Year

**Required:** No

## **DMACC SCALE - Story County Active Learning Experiences**

All classes take place at the Hunziker Center in Ames unless otherwise noted. Students will need to find their own transportation to and from the center. Three class periods a day will be blocked out of their schedule to allow for transportation and class times.

### **Business Communication and Technology**

**Credits:** 2 H.S. (College in Description)

Combines innovation with communications, technology, marketing, and data management to enable the student to assume the role of a professional creative consultant. In Business Communication and Technology, students are paired with organizations for which they prepare materials such as marketing strategies, logos, business cards, graphic design pieces, and social media campaigns. This field is in high demand in all industries and has incredible potential for start-ups. If you love web design, programming, business, marketing, writing, gaming, leadership or want to learn how technology can apply to your field of interest, this class is for you. Business Communication and Technology students will earn 3 DMACC credits for COM703 Communication Skills. Program meets daily from 12:50 – 2:50 for one semester.

### **Multi-Disciplinary Engineering**

**Credits:** 2 H.S. (College in Description)

Students will gain an understanding of the broad field of Engineering and the varied career opportunities within Engineering in Story County. Whether you are interested in architecture and design, robotics and advanced manufacturing, or agricultural engineering, MultiDisciplinary Engineering has something for you. Students will be encouraged to experience one or more of the engineering professions in more depth as they work on real world design projects that shape the environment for future generations. Multi-Disciplinary Engineering students will earn DMACC credit for EGR100 Engineering Orientation (1 credit) and SDV164 Electronic Portfolio Development (2 credits). Program meets daily from 7:30 – 9:30 am for one semester.

### **Renewable Energy and Bio-Sciences**

**Credits:** 2 H.S. (College in Description)

Students will focus on the intersecting fields of energy production and the related cutting edge scientific principles that apply to both energy and biology related topics. Students will learn about the distinct career fields within various forms of energy production and storage, experience lab techniques used with the bio-science field, and have the opportunity to see the science in action while working alongside professionals in the field. Renewable Energy and Bio-Sciences students will earn 1 DMACC credit for SDV130 Career Exploration and 3 DMACC credits for ADM269 Workplace Professionalism. Program meets daily from 12:50 - 2:50 for one semester.

### **Health and Human Services**

**Credits:** 2 H.S. (College in Description)

Provides an investigation of varied careers that focus on physical, social and emotional well-being of others. A general focus on the social service and healthcare industry will provide a base for students to explore their specific interests in career fields while working alongside professionals throughout Story County. Whether you have a curiosity about medicine, wellness, mental health or social services, Health and Human Services will allow you to explore your interest while building a professional portfolio of activities outside of the classroom and engaging in the community. Health and Human Services students will receive 3 DMACC credits for HSV109 Introduction to Human Services. Program meets daily from 7:30 – 9:30 am daily for one semester.

## DMACC Online Career Academy Classes

Students may register for one online course per semester. Juniors and Seniors may register for two online courses per semester. Students will be required to have a 3.5 GPA and 21 ACT composite score to enroll in Liberal Arts and Sciences courses or a teacher/counselor recommendation. High school students will have their own DMACC instructors. DMACC Instructors will have weekly contact with the student.

### **ACC111 - Intro to Accounting**

**Credits:** 3 College/1 H.S.

An introductory course in accounting fundamentals and procedures. Includes capturing and analyzing business data and financial statement preparation.

### **\*BUS 102 - Introduction to Business**

**Credits:** 3 College/1 H.S.

An overview of the ever-changing world of business. Provides information in the areas of ownership, management, marketing, insurance, economic systems and finance, as well as the role of government.

### **BUS 148 - Small Business Management**

**Credits:** 3 College/1 H.S.

Examines introductory business applications and strategies needed to start and operate a small business. Topics include entrepreneurship preparation, idea feasibility, business plan content, introductory marketing, and management and finance concepts for small business.

### **BCA 212 –Intro Computer Business Applications**

**Credits:** 3 College (includes lab)/1 H.S.

The focus of this course is to use computer hardware and software as business productivity tools. Training includes a hands-on introduction to computer applications vital in today's business and industry. Course covers operating system, e-mail, internet, word processing, spreadsheet, database and presentation applications.

### **CRJ100 – Intro to Criminal Justice**

**Credits:** 3 College/1 H.S.

An in-depth examination of the three components of the criminal justice system and the roles they play in society.

### **CRJ111 –Police and Society**

**Credits:** 3 College/1 H.S.

An examination of the role of the police and corrections in American society, and a discussion of prominent issues. The course will examine the various eras of policing and correctional agencies. The structure and style of various policing and correctional agencies will also be covered. Agency application of internal and ethical issues including use of force will be examined. Strategies and policies to improve policing and correctional work environment will also be discussed.

### **DRA101 – Intro to Theatre**

**Credits:** 3 College/1 H.S.

A survey of the elements and techniques of theatre with emphasis on acting, directing and playwriting. Attendance at dramatic production encouraged.

### **ECE 103 – Intro to Early Childhood Ed**

**Credits:** 3 College/1 H.S.

Gives students a historical and philosophical foundation of the field of early childhood education. Includes an overview of assessment and trends that influence best practices. Explores careers in the field. Addresses influences of families and diversity.

**ECE 133 – Child Health, Safety and Nutrition****Credits:** 3 College/1 H.S.

Provision of a safe and healthy environment for young children in a group setting. Specifically covered are nutrition analysis, menu planning, indoor and outdoor safety principles and assessments, health assessments and policies, and the care of children with chronic health problems.

**ECN 120 – Principles of Macroeconomics****Credits:** 3 College/1 H.S.

This course is an introduction to basic macroeconomic concepts and principles. It deals with problems of resource allocation, supply and demand, national income, employment, price levels, fiscal and monetary policy, money and banking systems and elements of global finance. ECN 120 is not a prerequisite for ECN 130.

**ECE 130 – Principles of Microeconomics****Credits:** 3 College/1 H.S.

Course covers survey of demand and supply conditions, cost structure, market structure and how these elements affect individual household, business firms, government and global trade. ECN 120 is not a prerequisite for ECN 130.

**ENG 105 - Composition I****Credits:** 3 College/1 H.S.

Designed to help students read and write effectively. Exploration of the relationship of audience to writer and material. Emphasis on developing concrete detail to support main ideas. Prerequisite: Satisfactory writing skills

**ENG 106 - Composition II****Credits:** 3 College/1 H.S.

Expository and persuasive writing developed through critical reading. The course explores structure, style, research and documentation. Prerequisite: ENG 105

**FIN 121 - Personal Finance****Credits:** 3 College/1 H.S.

This course emphasizes family financial planning including financial statements, budgeting, taxes, risk management and retirement.

**GEO 111 – Intro to Geography****Credits:** 3 College/1 H.S.

This course utilizes the basic concepts of cultural geography (area, landscape, ecology, diffusion and integration) in a systematic examination of the contemporary world. The course is intended to provide an elementary acquaintance with the field of geography.

**HIS 112 - West Civ: Ancient to Early Mod****Credits:** 4College/1 H.S.

The student surveys the great civilizations from Greece and Rome through the rise of Christianity, to Europe in the Middle Ages, the Renaissance and Reformation, the modern state, the new science and the secular outlook, parliamentary government in England and political absolutism in France and Eastern Europe.

**HIS 113 - West Civ: Early Modern to Pres****Credits:** 4 College/1 H.S.

Survey of political, economic, social and intellectual developments from the 18th century to the present. Enlightenment, revolutions and reactions, national unifications, national rivalries, world wars and post-war developments.

**HIS 150 - U.S. History to 1877****Credits:** 4 College/1 H.S.

A survey of main themes of American history from 1492 to 1877 with emphasis on the political, social, economic, religious and intellectual aspects of the pre-settlement, Colonial, Revolutionary, Antebellum Civil War and Reconstruction eras.

**HIS 153 - U.S. History since 1877****Credits:** 4 College/1 H.S.

A survey of main themes of American history from 1877 to the present with emphasis on political, social, economic, religious and intellectual aspects of the Gilded Age, the Progressive Era, WWI, the Roaring Twenties, the Great Depression, WWII and post WWII Era.

**HSC 120 - Medical Terminology I****Credits:** 3 College/1 H.S.

Builds a medical vocabulary through an understanding of anatomic roots for words denoting body structures, prefixes, suffixes and body functions.

**HSC 121 - Medical Terminology II****Credits:** 3 College/1 H.S.

Continues to build a medical language vocabulary by studying body systems such as musculoskeletal, endocrine, nervous and integumentary systems. Prerequisite: HSC 120 with a grade of "C-" or better.

**\*HUM 116 – Encounters in Humanities****Credits:** 3 College/1 H.S.

An interdisciplinary course exploring the human condition through literature, painting, sculpture, architecture, music and dance. The course examines the cultural context of individual works and movements, the thematic relationships between the arts and the relevance of the arts in our lives today.

**LIT 101 - Intro to Literature****Credits:** 3 College/1 H.S.

Introduction to the study and appreciation of poetry, fiction and drama. 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.

**MAT 110 – Math for Liberal Arts****Credits:** 3 College/1 H.S.

The student will begin to think critically by studying logic, sets and statistical reasoning. The student will examine problem solving and decision making by studying probability, application of statistical data, modeling, and financial mathematics. The student will become aware of possible abuses of mathematics. Finally the student will understand the broad usefulness of mathematics by studying history of mathematics and application of mathematics in art, music, business and/or politics. Prerequisite: 1 year of high school algebra or MAT 064

**MAT 141 - Finite Math****Credits:** 4 College/1 H.S.

A general education course in practical mathematics for those students not majoring in mathematics or science. This course will include such topics as set operations and applications, methods of counting, probability, systems of linear equations, matrices, geometric linear programming and an introduction to Markov chains. Prerequisite: One year H.S. Algebra or MAT 063.

**MAT 157 - Statistics****Credits:** 4 College/1 H.S.

Tabular and graphical presentation, measures of central tendency and variability, standard elementary procedures involving the binomial, normal, student's T, chi-square and F distributions, correlation, regression, analysis of variance and several nonparametric procedures. Students will not receive credit for both MAT 157 and BUS 211 Prerequisite: Two years H.S. Algebra, department permission or MAT 073.

**MAT 211 - Calculus I****Credits:** 4 College/1 H.S.

Introduction to limits, continuity, differentiation, applications of the derivative, the definite and indefinite integral, numerical integration, exponential and logarithmic functions, other transcendental functions and introduction to differential equations. Prerequisite: Minimum ALEKS scores of 76% or MAT 121 and MAT 130 both with a grade of C- or higher or MAT 129 with a grade of C- or higher.

**MKT110 – Principles of Marketing****Credits:** 3 College/1 H.S.

Marketing effectively and efficiently results in better customer loyalty, higher share of customers, relief from margin erosion, and higher customer satisfaction. Explore strategies used to get, keep, and grow customers. Theoretical concepts blend with real world applications in the areas of planning, decision-making, consumer behavior, ethics, product, price, distribution, promotion, service and international marketing.

**MKT140 - Selling****Credits:** 3 College/1 H.S.

Emphasizes the "consultative style" of personal selling. Covers the importance of establishing good relationships, finding prospect needs, providing a solution to these needs, and closing a high percentage of sales interviews.

**PHI101 – Introduction to Philosophy****Credits:** 3 College/1 H.S.

Exploration of basic questions in epistemology, metaphysics and ethics. Emphasis on western philosophy tradition.

**PHI105 – Introduction to Ethics****Credits:** 3 College/1 H.S.

Comparative study of different traditional moral theories. Application of moral theories to different contemporary moral problems.

**PEH190 – Sports Nutrition****Credits:** 2 College/1 H.S.

Basic principles of human nutrition and nutritional needs for athletes and/or physically active populations. Issues discussed include ergogenic aids, carbohydrate loading/ manipulation, eating disorders, protein supplements and hydration. Practical application will include dietary analysis and composition for people in various activities and conditions.

**POL 111 – American National Government****Credits:** 3 College/1 H.S.

A study of the American political system and how and why the citizenry relate to the government as they do. Emphasis is placed upon the organization and functioning of the presidential, legislative and judicial subsystems.

**\*PSY 111 - Introduction to Psychology****Credits:** 3 College/1 H.S.

A survey of psychology including theoretical and experimental findings and applications from areas such as

neurobiology, learning, memory, personality, social, abnormal, and therapy.

**PSY 121 - Developmental Psychology**

**Credits:** 3 College/1 H.S.

The study of factors that affect human development from conception to death, with emphasis on topics such as physical, cognitive, and social changes, methods of study and current issues.

**\*SOC 110 - Introduction to Sociology**

**Credits:** 3 College/1 H.S.

The study of human interaction, groups and society. Topics included are culture, socialization, organizations, deviance, inequality, institutions, health, population, ecology, social change and research methods.

**SOC 115 – Social Problems**

**Credits:** 3 College/1 H.S.

An analysis of the nature, dimensions, causes, and characteristics of selected social problems of major interest. Consideration is given to theories, research and programs for prevention and treatment.

***\*These courses are part of the DMACC Cohort Advantage Program. The DMACC Cohort Advantage Program is a unique partnership between DMACC and Collins-Maxwell High School which allows CM students begin a Liberal Arts Associates degree. Students will take courses in a cohort group, all in the same section with the same instructor.***

**Iowa Online AP Academy (IOAPA)**

The University of Iowa's Belin-Blank Center for Gifted Education has made a concerted effort since 2001 to bring AP® and advanced learning opportunities to all high schools in Iowa. IOAPA seeks to enhance advanced course offerings in the state of Iowa through providing Iowa students who are in schools without a traditional AP® course the opportunity to enroll in online AP® coursework through Apex Learning without paying the \$350/student course fee. IOAPA also provides Iowa students with access to the AP® Exam Review at no cost. Juniors may register for one online course per semester. Seniors may register for two online courses per semester. ***Schools are eligible to register for an Iowa Online AP Academy course if the course is not currently offered within the school district (or, in the case of middle school students, if the course is not offered at the student's grade level).***

**AP Biology**

**Credits:** 2 H.S.

AP Biology builds students' understanding of biology on both the micro and macro scales. After studying cell biology, students move on to understand how evolution drives the diversity and unity of life. Students will examine how living systems store, retrieve, transmit, and respond to information and how organisms utilize free energy. The equivalent of an introductory college-level biology course, AP Biology prepares students for the AP exam and for further study in science, health sciences, or engineering.

**AP Computer Science A (Java)**

**Credits:** 2 H.S.

Students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. AP Computer Science A teaches object-oriented programming using the Java language and is meant to be the equivalent of a first semester, college-level course in computer science. It will emphasize problem solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. This course will prepare students for the end-of-course AP Exam.

### **AP Computer Science A Principles**

**Credits: 2 H.S.**

AP Computer Science Principles is a complete, full-year course developed in partnership with the University of Texas at Austin's UTeach Institute that focuses on the 7 "Big Ideas" in computer science using project-based approaches. The course introduces students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity, and how computing impacts our world. Students will develop the computational thinking skills needed to fully exploit the power of digital technology and help build a strong foundation in core programming and problem-solving.

1. *Engaging Students New to Computer Science:* The course is designed to engage students from diverse backgrounds and those new to computing – and excite students with a curriculum that focuses on the core ideas that shape the landscape of computer science and its impact on our society.
2. *Project-Based and Collaborative Learning Approach:* Using project-based lessons and materials throughout, students will work to address real-world problems and design solutions to put computational thinking into practice. These culminate in a capstone Performance Task project where students can demonstrate what they've learned - to become creators, instead of merely consumers, of the technology all around them.

This course will prepare students for the end-of-course AP Exam.

### **AP English Literature and Composition**

**Credits: 2 H.S.**

AP English Literature and Composition immerses students in novels, plays, poems, and short stories from various periods. Students will read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills and knowledge. The course places special emphasis on reading comprehension, structural and critical analysis of written works, literary vocabulary, and recognizing and understanding literary devices. The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in creative writing, communications, journalism, literature, and composition.

### **AP Environmental Science**

**Credits: 2 H.S.**

AP Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course draws upon various disciplines, including geology, biology, environmental studies, environmental science, chemistry, and geography in order to explore a variety of environmental topics. Topics explored include natural systems on Earth; biogeochemical cycles; the nature of matter and energy; the flow of matter and energy through living systems; populations; communities; ecosystems; ecological pyramids; renewable and nonrenewable resources; land use; biodiversity; pollution; conservation; sustainability; and human impacts on the environment. The equivalent of an introductory college-level science course, AP Environmental Science prepares students for the AP exam and for further study in science, health sciences, or engineering.

**AP Macroeconomics****Credits: 2 H.S.**

AP Macroeconomics students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. They'll also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this course prepares students for the AP exam and for further study in business, political science and history.

**AP Microeconomics****Credits: 2 H.S.**

AP Microeconomics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, AP Microeconomics prepares students for the AP exam and for further study in business, history, and political science.

**AP U.S. Government****Credits: 2 H.S.**

AP U.S. Government and Politics studies the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students will gain the analytic perspective necessary to critically evaluate political data, hypotheses, concepts, opinions, and processes. Along the way, they'll learn how to gather data about political behavior and develop their own theoretical analysis of American politics. They'll also build the skills they need to examine general propositions about government and politics, and to analyze the specific relationships between political, social, and economic institutions. The equivalent of an introductory college-level course, AP U.S. Government and Politics prepares students for the AP exam and for further study in political science, law, education, business, and history.