

# **Johnston High School**

## **COURSE SELECTION HANDBOOK 2012-2013**



# JOHNSTON HIGH SCHOOL EDUCATIONAL PROGRAM

Welcome to Johnston High School. We hope that you will find our school to be a good place to learn and grow. There are many opportunities for you here and we hope you take advantage of them.

The following pages represent a brief summary of the courses and activities offered to high school students at Johnston High School.

The program is arranged to provide for the individual needs of all students through required courses, elective courses and school activities. Because each student differs in abilities, aptitudes, talents and interests, the school program is designed to permit individual expansion into those areas of learning and activity, which will permit optimum educational growth and personal development.

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 the High School Guidance Office at 278.0779 or the High School Administrative Office at 278.0449.

## Non Discrimination Statement

It is the policy of the Johnston Community 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. If you have questions or a grievance related to this policy please contact the district's Equity Coordinator, Dr. James Casey, Associate Superintendent, 5608 Merle Hay Road, Johnston, Iowa, 50131, (515) 278-0470, [jcasey@johnston.k12.ia.us](mailto:jcasey@johnston.k12.ia.us).

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# **OVERVIEW OF JOHNSTON HIGH SCHOOL**

## **I. ABOUT OUR DISTRICT**

Johnston High School is a rapidly growing, comprehensive public high school located on the northwest edge of Des Moines, Iowa. Current enrollment in grades 10-12 is approximately 1,300. The community is a suburban area.

The population of the district is diverse. The core of the town of Johnston is well established. Many new homes and apartments are being built in the community of Johnston. In addition, new growth is taking place in Des Moines, the city of Urbandale and near Saylorville Lake. All three areas are within the school district boundaries.

## **II. GRADING POLICY**

A dual reporting system is used. Both an unweighted 4.0 scale and a weighted 5.0 scale will be reported. Both weighted and unweighted grade averages and class ranks will be displayed on transcripts.

Unweighted grades are awarded on an A's = 4.0, B's = 3.0, C's = 2.0, D's = 1.0, F = 0 basis. Individual teachers determine what is needed to achieve these grades. Teachers may award + or - grades, but these are not reflected in the GPA (Grade Point Average).

In the weighted grading calculation, A's = 5.0; B's = 4.0; C's = 3.0; D's = 2.0, F = 0.

The following classes will be weighted:

- a. Advanced Placement courses as developed and approved by the College Board.
- b. PSEO classes that have been approved by the Principal or designee.
- c. Prior approval for enrolled students.
- d. Transfer transcripts will be evaluated by Principal or designee and weighting assigned based on local weighted course standards

All students, except special education students who spend most of the day in a self-contained classroom, are included in the grade point averages and class rankings.

DMACC Classes: Students may choose to take dual credit DMACC courses for credit hours. While JHS does not use the "+" or "-" grade designations, DMACC does.

## **III. ACADEMIC HONORS AND AWARDS**

Johnston High School intends to honor and recognize those students who excel in the classroom. A variety of awards are bestowed, a few of them being:

- Academic Letter

The highest academic honor bestowed is an Academic J. An academic letter will be awarded to students in grades 9-12 who have achieved high honors for each semester. High honors is defined by a 3.75 G.P.A. or better for each semester of the school year.

- Honor Roll

Students who have a G.P.A. of 3.0 or better for a semester grading period will be listed on the honor roll. All grades will be used in computing G.P.A. for the honor roll. Plus and minus marks will not be used.

The Honor Roll at Johnston High School is three tiered, and done by semester.

High Honors are awarded for a G.P.A. of 3.75 or above.

Honors are awarded for a G.P.A. of 3.25 to 3.74.

Honorable Mention is awarded for a G.P.A. of 3.0 to 3.24.

- National Honor Society

The National Honor Society is an honorary organization. Students are selected for membership by the Faculty Council on the basis of scholarship, service, leadership, and character. Membership is never considered solely on the basis of scholarship. Selection of members is during second semester of the sophomore and junior year. Only students who have been in Johnston High School the equivalent of one semester may be considered for membership, and have a cumulative grade point of 3.50. At the time of selection, all students who are scholastically eligible are notified of the procedure to follow for further consideration of membership into National Honor Society.

#### **IV. ATHLETICS, ACTIVITIES AND ORGANIZATIONS**

For a complete list of activities, clubs and organizations please go to the

Johnston High School website:

<http://www.johnston.k12.ia.us/schools/highschool/index.php>

or Johnston Moodle website:

<https://jhsmoodle.johnston.k12.ia.us/login/index.php>

- To enter please log in as guest

**\*\*Copies of this handbook will be available at the Johnston High School Main Office or the Johnston Middle School Main Office**

# GRADUATION REQUIREMENTS

Johnston High School is continually striving to enhance the educational quality of its program. This effort includes revising graduation requirements to meet the changing needs of students. The following are **minimum** graduation requirements for Johnston students. Most students will choose to go beyond the minimum requirements needed for graduation.

The traditional high school experience is four years. Students may either accelerate or slow down their studies to arrive at graduation. For purposes of classification, credits will be determined at the end of the previous school year. Students intending to accelerate their studies need to plan their high school course sequence accordingly. Students should schedule an appointment with a guidance counselor to arrange their schedules.

Students successfully completing recommended loads should earn enough credit to graduate in four years. Less than the recommended number of classes may result in extra years required to graduate and/or loss of athletic eligibility.

## Required Credits for Graduation = 24

### Required Courses for Graduation

English	4 Credits (8 semesters)
Math	3 Credits (6 semesters)
Science	3 Credits (6 semesters)
Social Studies	3 1/2 Credits (7 semesters) to include one semester of Topics in History, one year each of World Studies, U.S. History and American Government.
Technology	1/2 Credit either Computer Application or Graphic Communications.
PE	1 Credit (1/8 credit each semester) During the school year students may be excused from taking P.E. for one semester. PE will be waived if they have a full (8 periods) schedule.
Health	1/2 Credit (1 semester)
Electives	8.5 Credits

**TOTAL CREDITS**      **24 credits** (the term 'credit' is the same as the term 'unit' in Board Policy 605.4)

### EXPLANATION OF CREDITS

1/2 credit is earned per class each semester with the following exceptions:

Extended Period Class	1	Coop Work	1
PE	1/8	Freshman Chorus	1/4
Mixed Chorus	1/4	Synergy	1/8
Innovation	1/8		

Driver's Education does not count as a credit toward graduation.

### GRADUATION

Students classified as Seniors may plan on graduation. Seniors who have developed a plan and are accepted and approved by the Johnston High School administration for fulfilling Johnston 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 requirements.

### **EARLY GRADUATION (Policy 505.8)**

Generally, students will be required to complete the necessary course work 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 August 15<sup>th</sup> stating the reason for such request and the intended date of early graduation.

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.

# ACADEMIC INFORMATION

## COURSE LOADS

All 10<sup>th</sup> and 11<sup>th</sup> grade students - six (6) courses plus physical education. No early dismissal or late arrival.

12<sup>th</sup> grade students - six (6) courses plus physical education. Seniors still have the possibility of late arrival or early dismissal dependent on the student's individual schedule.

## SCHOLARSHIP RULE

Students that are involved in athletics have a "Scholarship Rule" that regulates student-eligibility. The complete rule for students participating in **athletics** (boys and girls) can be found on the following web site: [www.ighsau.org](http://www.ighsau.org) under the category called Policy/Guideline updates-Guidance on Scholarship rule 36.15 (2). The following information and examples will hopefully better explain the rules.

### Athletics and Cheerleading

- All students must be enrolled and receive credit in at least 4 subjects at all times.
- If not passing all of their classes at the end of the semester, the student is ineligible for the next 30 calendar days (eligible on Day 31) in the next interscholastic athletic event in which the student participates. Day 1 is established by the IHSAA and the IGHS AU for the fall, spring, summer, and beginning of winter sports. Day 1 is established by each school following the conclusion of the first semester for winter sports.
- Students must begin and end the season in good-standing in order to satisfy the ineligibility requirements.

### Dance Team and Other School Activities

- If at the end of a semester a participant receives an "F", the student is ineligible to participate for a period of 30 consecutive school days.

**Example 1:** A 10<sup>th</sup> grade student is involved in the Dance Team. She tried out and made the squad for her 11<sup>th</sup> grade year. At the end of the 2<sup>nd</sup> Semester she received an "F" in one class. She would be ineligible to perform for the first 30 school days during her 11<sup>th</sup> grade year (still be allowed to practice, but not perform).

**Example 2:** An 11<sup>th</sup> grade student is involved in Mock Trial. At the end of the first semester he received an "F". He would be ineligible to perform for the first 30 school days during his 11<sup>th</sup> grade year.

If you have specific questions related to this information, please contact Gary Ross, Activities/Athletic Director at 515-278-2407.

### Vocal Music, Instrumental Music, Speech, Drama and Other School Activities

- If at the end of a semester a participant receives an "F", the student is ineligible to participate in any competitive event within a period of 30 consecutive school days. Evaluative activities are not impacted by the eligibility rule (see definitions of competitive and evaluative in #2). If there are no competitive events within the 30 school-day period, there would be no loss of eligibility.
- Evaluative is defined as "an event in which a rating is given." Competition is defined as "receiving a place" rather than a rating.

**Example 1:** An 11<sup>th</sup> grade student is eligible in "Innovation", and the student receives an "F" at the end of the first semester. She would be ineligible for the first 30 school days of competition following 1<sup>st</sup> semester (for example, the Johnston Invitational would be evaluative since we are performing an exhibition, but the Urbandale Show Choir Invite would be competitive and therefore the student would not be eligible to compete in that event).

**Example 2:** A 10<sup>th</sup> grade student was involved in Marching Band. At the end of the 2nd semester, the student received an “F”. He would be ineligible to compete the competition marching band events in the fall for the 1<sup>st</sup> 30 school days (not eligible to compete in the Urbandale Marching Band Competition, but would be able to participate in the Johnston Invite and the halftime of the varsity football games since it is not for places and would be considered evaluative).

### **COURSE SELECTION AND CHANGE PROCESS**

Students should select courses carefully with the assistance of their families, teachers, and the Guidance 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. Students may not choose/request teacher(s) and the period of the day.

### **RETAKE CLASSES**

Students may repeat classes previous taken, If students choose 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 can not gain additional credit by repeating a class.
- The grade earned in the repeated class will be used to calculate the students cumulative GPA.
- The original course and grade will show on the transcript, but will not be used in any cumulative calculations.
- Students may drop a class they are repeating up to three weeks prior to the end of the semester. If the class is dropped by the appropriate date, the grade and credit from the earlier class will remain. The dropped class will not show on the transcript. Courses not dropped by the appropriate date will be used in the cumulative records and students could lose credit by failing a class they previously had passed.
- Students requesting to repeat a class must complete a "Request to Repeat a Class Form" and return it to the Guidance 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.
- Requests that don't meet the above guidelines are subject to administrative approval.

### **EARLY DISMISSAL/LATE ARRIVAL**

Seniors with late arrival may arrive in time for their first class and may leave after their last class. The scheduling process will take into account the opportunity for early dismissal/late arrival and will provide it, if possible.

### **AP COURSES (Advanced Placement)**

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 Board AP exam grade should note that individual colleges and universities, not the College Board or the AP program, grant course credit and placement.

### **CONCURRENT CREDIT**

While JHS does not use the “+” or “-” grade designations, DMACC does.

### **DMACC—JHS Concurrent Enrollment Courses**

Johnston High School is working with Des Moines Area Community College (DMACC) to provide students the opportunity to earn college credit for several Johnston 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 Biology, Tech Math I & II, AP English Literature and Composition, AP French, AP Spanish, Construction Tech, Welding, Advanced Speech and Coop Work Plus. Please consult with the Guidance Counselors for updates and details.

DMACC courses may not be taught due to the following circumstances:

Teacher certification

Student enrollment

DMACC or State regulations/changes

Students are only eligible for these classes if they are proficient on the Iowa Assessments in Math, Reading and Science. If you drop the DMACC credit portion of these classes, you must also drop the JHS credit. If this date is beyond the JHS official drop date each semester, you will receive an F for the JHS credit portion.

### **CORRESPONDENCE / ONLINE COURSES**

Correspondence/Online courses must have prior approval from either the Guidance Counselor or Principal. Exceptions must be approved by the Principal.

### **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 regent's universities, Iowa community colleges or Iowa private colleges. The courses that students select must not be offered at Johnston High School. The cost for taking these courses will be paid for by the Johnston Community Schools. However, a student enrolling in a course who 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 the college credit awarded. Each three (3) credit course will provide .5 high school credit. These credits will count toward 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 Guidance Office prior to enrolling in courses. Students must contact the Post Secondary Enrollment Option Coordinator at Johnston High School to secure forms and to enroll. The Coordinator is located in the Guidance Office. Registration and enrollment depends on notification and regulation provided by each post-secondary institution.

It is the intent of Johnston High School to help students take courses at post secondary 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 Guidance Counselor for assistance in enrolling.

### **CENTRAL CAMPUS OPTIONS**

Johnston High School and the Des Moines Community School District have entered into an agreement to allow Johnston students to attend classes at Des Moines' Central Campus. Transportation may be provided between Johnston High School and Hoover High School, where students will take a shuttle to the downtown campus. Program brochures are available in the Guidance Office.

### **CENTRAL ACADEMY OPTIONS**

Johnston High School and the Des Moines Community School District have entered into an agreement to allow Johnston students to participate in the Central Academy program located in Des Moines Central Campus.

## **JR. ROTC**

Johnston High School Students are allowed to participate in the Junior ROTC program at Central Campus. The program can be a four year program.

## **CAREER ADVANTAGE COURSES**

DMACC offers a number of career courses on their campuses that allow junior and senior JHS students to earn college credit. Each program requires students to be absent 3 periods per day from JHS. Courses currently available are listed later in this handbook. Program brochures are available in the Guidance Office.

## **EXTENDED LEARNING PROGRAMMING**

### LEVELS OF SERVICE:

The following explains the levels of service offered to students through the extended learning program (ELP). A district JELP meeting is held each fall that further explains programming. Our identification, completed in the spring, is based upon multiple criteria. Students and/or parents may initiate the request for ELP services, as well as teachers. Student initiative is important. If you have questions or concerns, please contact Kathy Paul, ELP Coordinator, at the Johnston Middle School or Sue Cline, ELP teacher at Johnston High School.

- GENERAL ENRICHMENT:

This level of service gives the classroom teacher indication of ability. Teachers look for potential needs and provide differentiated curriculum as needed. Qualified students may take an ELP class that meets daily or every other day, depending upon schedules. The class is formatted to provide structure for students to pursue independent study. Students are offered assistance with high school and college planning to meet their specific needs. Extra and co-curricular activities are encouraged.

- STRENGTH AREA:

This service is for students who excel in one or more academic areas. All above options are available. In addition, students may take advanced classes in a particular area of strength.

- EXTENDED STUDIES:

Students at this level of service require a Personalized Educational Plan to provide an academically differentiated curriculum. In addition to the services listed above, students are closely monitored to ensure programming provides advanced content.

## TESTING BY GRADE

<b>GRADE 9 (All Required)</b>	<b>Iowa Assessments (Required)</b>	<u>Iowa Assessments</u> – given annually by the state of Iowa. Students are measured in the areas of Vocabulary, Reading, Computation, Math, Social Studies, Science and Written Expression. These assessments are used to assess student and school achievement across the nation.
	<b>Measures of Academic Progress (MAP)</b>	<u>MAP</u> -given by skill level, gives student measure of skill level in math, reading/language and comparison of skills to peers in same grade, created by JHS.
	<b>Writing Assessment</b>	<u>Writing Assessment</u> - 9 <sup>TH</sup> grade Writing Assessment evaluates student's ability to address a persuasive prompt in a timed writing situation. Students are scored using the six traits rubric for persuasive writing, as well as their ability to write a cohesive paragraph. The six traits include ideas, organization, voice, word choice, sentence fluency, and conventions.
<b>GRADE 10</b>	<b>Iowa Assessments (Required)</b>	
	<b>MAP (Required)</b>	
	<b>PLAN</b>	<u>PLAN</u> –practice test for the ACT gives student comparison of skills to peers in math, science reasoning, English, and reading, identifies career areas of interest, created by ACT.
	<b>Reading Assessment (Required)</b>	<u>Reading Assessment</u> –Sophomore Reading Assessment evaluates students' ability to read a short passage and answer a series of questions related to author's purpose and making connections to theme. Students are evaluated on their inferential thinking skills as evidence by their paragraph length responses.
<b>GRADE 11</b>	<b>Iowa Assessments (Required)</b>	
	<b>MAP (Required)</b>	
	<b>PSAT</b>	<u>PSAT</u> –practice test for SAT, used by National Merit Scholarship Corporation to select award winners (top 2%), gives comparison to juniors for math, verbal, and writing, created by SAT.
	<b>ACT</b>	<u>ACT</u> –gives student comparison of skills to peers in math, science reasoning, English, and reading. Identifies career areas of interest, created to predict likelihood of student success in first semester of college. This test is used by most colleges as an admission requirement.
	<b>SAT</b>	<u>SAT</u> –gives student comparison of skills to peers in math, verbal, and writing, created to predict likelihood of student success in first semester of college. This test is used by some colleges as an admission requirement.
	<b>Science Assessment (Required)</b>	<u>Science Assessment</u> –designed to assess a student's critical thinking and problem-solving skills through interpreting given data to answer a series of multiple choice and essay questions.
	<b>Math Assessment (Required)</b>	<u>ICAM'S</u> –Iowa Collaborative Assessment Modules are taken in March/April. These are criterion-referenced tests that measure Geometry standards and benchmarks of the district. This test is given to 11 <sup>th</sup> graders and is scored by a group of teachers state-wide in June.
<b>GRADE 12</b>	<b>ACT</b>	
	<b>SAT</b>	

## COURSE PLANNING

One of your most important tasks while in high school is planning your high school program of study. This involves decisions based on an understanding of two areas of knowledge, **Self Knowledge** (your abilities, interests, and values), and **Occupational Knowledge** (understanding what careers are available and the requirements of a career that you are considering entering). In most instances this will involve some training and/or education beyond high school. This means you must prepare while in high school for courses you will be taking in college, vocational schools, community college, military programs, or on-the-job training programs. It is the intent of Johnston High School to offer the courses listed in this handbook. However, if enrollment in any class is determined to be insufficient, the course may be cancelled.

Johnston High School encourages you to meet with your counselor to explore careers and plan a course of study for high school and beyond.

### 1. RECOMMENDED CURRICULUM FOR STUDENTS PLANNING ON POST-SECONDARY EDUCATION

	<u>JHS GRADUATION REQUIREMENT</u>	<u>MINIMUM SUGGESTED COLLEGE PREPARATION (3)</u>
English	4.0 Credits	4.0 Credits
Social Studies	3.5 Credits	3.5 Credits
Math	3.0 Credits	3.0 Credits (Algebra 2)
Science	3.0 Credits	3.0 Credits (General Chemistry or Conceptual Physics)
Computers/Technology	0.5 Credits	1.0 Credits
World Language	0.0 Credits	2.0 Credits (1)
Health	0.5 Credits	0.5 Credits
P.E.	1.0 Credits	1.0 Credits
Electives	<u>8.5 Credits</u>	<u>8.5+ Credits (2)</u>
<b>Total Credits</b>	<b>24 Credits</b>	<b>26.5+ Credits (3)</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 fine arts 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.

### 2. I HAVE A PLAN IOWA

I Have a Plan offers students a comprehensive computerized program for career exploration and planning and is required by the state for all high school students. The system includes interest and skills inventories, databases for occupations, post secondary trade and technical schools/colleges/universities and financial aid resources. Access to the program can be obtained by contacting the guidance office. I Have a Plan is utilized as part of the JHS Advisement curriculum. The website is [www.ihaveaplaniowa.gov](http://www.ihaveaplaniowa.gov).

### 3. SUGGESTED STANDARDIZED TEST OPPORTUNITIES

Standardized tests tell a student their skill level in comparison to others. The results can be used during course planning in an effort to improve current skill levels. Skill areas of a particular strength or weakness can also be considered in coordination with possible career areas of interest.

## COURSE OFFERINGS FOR 2012-2013

COURSE	LENGTH	OPEN TO	PREREQUISITES	OTHER
<b>ART &amp; DESIGN</b>				
9 <sup>th</sup> Grade Art	Sem.	9		0.5 credit Both Semesters
Clay	Sem.	10-12		0.5 credit, First and/or Second Semester
Design I	Sem.	10-12		0.5 credit, First Semester
Design II	Sem.	10-12	Design I	0.5 credit Second Semester
Drawing	Sem.	10-12		0.5 credit, First and/or Second Semester
Essentials of Art	Sem.	10-12		0.5 credit Both Semesters
Introduction to Drawing	Sem.	9		0.5 credit Both Semesters
Painting	Sem.	11-12	Drawing	0.5 credit Second Semester
Peer Partner Art	Sem.	10-12	Must complete application & submit to instructor for approval	0.25 credit Both Semesters
Photo Art I	Sem.	10-12		0.5 credit Both Semesters
Photo Art II	Sem.	10-12	Photo Art I	0.5 credit Both Semesters
<b>BUSINESS EDUCATION</b>				
Accounting I	Year	9-12		1.0 credit
Accounting II	Year	11-12	Accounting I/Required C grade	1.0 credit
Advertising & Sales	Sem.	10-12		0.5 credit Both Semesters
Business Applications	Sem.	9		0.5 credit Both Semesters
Computer Applications	Sem.	9	**This course does not meet the recommended requirements for the NCAA clearinghouse or 4-yr college admission	0.5 credit Both Semesters
Co-op Work (Class & Job)	Year	11-12	Must have 15 hour job Counts as an elective	1.0 credit each semester 6 DMACC credits
Co-op Work (Class only)	Year	11-12		1.0 credit
Graphic, Sound & Animation	Sem.	10-12	Computer Applications	0.5 credit Both Semesters
Intro to Business/Money Management	Year	9		1.0 credit, 9 <sup>th</sup> graders are required to take both semesters
Introduction to Business	Sem.	10-12		0.5 credit Both Semesters
Law for Bus. & Pers. Use	Sem.	10-12		0.5 credit Both Semesters
Money Management	Sem.	10-12		0.5 credit Both Semesters

Sports & Entertainment Marketing	Sem.	10-12		0.5 credit Both Semesters
Video Production	Year	10-12	Journalism, Computer App. or Graphic Communication	1.0 credit
Web Design	Sem.	10-12	Graphic, Sound & Animation	0.5 credit Both Semesters
<b>ENGLISH</b>				
Freshman English	Year	9		Required, 1.0 credit
Integrated Language Arts	Year	10	Freshman English	Required, 1.0 credit
Frameworks I				
A Teen in the World	Sem.	11-12	Integrated Language Arts	0.5 credit
Heroic Men and Women	Sem.	11-12	Integrated Language Arts	0.5 credit
Journalism	Sem.	9-12		0.5 credit
On the Road	Sem.	11-12	Integrated Language Arts	0.5 credit
Power of Persuasion	Sem.	11-12	Integrated Language Arts	0.5 credit
Sport, Competition & Culture	Sem.	11-12	Integrated Language Arts	0.5 credit
Working it Out: Communicating	Sem.	11-12	Integrated Language Arts	0.5 credit
Frameworks II				
Cross Currents	Sem.	11-12	Integrated Language Arts	0.5 credit
Culture Clash	Sem.	11-12	Integrated Language Arts	0.5 credit
Gender's Game	Sem.	11-12	Integrated Language Arts	0.5 credit
Pushing the Limits	Sem.	11-12	Integrated Language Arts	0.5 credit
Reading Lab	Sem.	11-12	Integrated Language Arts	0.5 credit
Reading the Screen	Sem.	11-12	Integrated Language Arts	0.5 credit
The Creative Mind	Sem.	11-12	Integrated Language Arts	0.5 credit
Capstone				
Advanced Speech	Sem.	12	Successful completion of ILA, Frameworks I & II	0.5 credit 3 DMACC credits
AP Literature & Composition	Year	12	Successful completion of Junior level English	1.0 credit 6 DMACC credits
Creative Explorations	Sem.	12	Successful completion of ILA, Frameworks I & II	0.5 credit
Digital Storytelling	Sem.	12	Successful completion of ILA, Frameworks I & II	0.5 credit
Ideas That Changed the World	Sem.	12	Successful completion of ILA, Frameworks I & II	0.5 credit
Electives				
9 <sup>th</sup> Grade Reading Lab	Sem.	9	Teacher recommendation	0.5 credit
Acting	Sem.	10-12		0.5 credit
Creative Writing	Sem.	9	Counts as elective credit	Both semesters 0.5 credit
Debate	Sem.	10-12		1 <sup>st</sup> semester 0.5 credit
Honors Newspaper	Year	11-12	one semester of Newspaper	Both semesters 1.0 credit

Honors Yearbook	Year	11-12	one semester of Yearbook	Both semesters 1.0 credit
Newspaper	Year	9-12	Journalism & teacher approval	Both semesters 1.0 credit
Read 180	Year	10	Permission of Counselor	1.0 credit
Yearbook	Year	9-12	Journalism & teacher approval	Both semesters 1.0 credit
<b>FAMILY AND CONSUMER SCIENCES</b>				
FCS Foundations & Careers	Sem.	9-12		0.5 credit Both Semesters
Arts/AV Technology & Communications Cluster: Visual Arts Pathway				
Clothing Seminar	Sem.	10-12	Family & Consumer Sciences	0.5 credit, First Semester
Design Strategies	Sem.	11-12	Family & Consumer Sciences	0.5 credit Second Semester
Textile & Housing Design	Sem.	10-12	Family & Consumer Sciences	0.5 credit Second Semester
Hospitality & Tourism Cluster: Restaurant, Food & Beverages Pathway				
Culinary Art I	Sem.	9-12	Family & Consumer Sciences	0.5 credit Both Semesters
Culinary Art II	Sem.	10-12	Culinary Art I	0.5 credit Both Semesters
Culinary Art III	Sem.	11-12	Culinary Art II	0.5 credit Both Semesters
Human Services Career Cluster: Early Childhood Development Services Pathway				
Adult Living	Sem.	11-12		0.5 credit, First Semester
Exploring Childhood	Sem.	10-12	Family & Consumer Sciences And Parenting	0.5 credit Both Semesters
Exploring Parenting	Sem.	10-12	Family & Consumer Sciences	0.5 credit Both Semesters
<b>INDUSTRIAL TECHNOLOGY</b>				
Advanced Woodworking	Sem.	10-12	Woodworking I/Required C grade	0.5 credit
Architectural Design	Sem.	10-12	Graphic Comm/Required C grade	0.5 credit
Automotive Technology	Sem.	10-12	Small Engines/Power Mech.	0.5 credit
Comp. Drafting & Design	Sem.	10-12	Mechanical Design/Required C grade or Architectural Design/Req. C grade	0.5 credit
Construction Technology	Year	11-12	Woodworking I	1.0 credit 7 DMACC credits
Graphic Comm (Drafting)	Sem.	9-12		0.5 credit
Introduction to Metals	Sem.	10-12		0.5 credit
Mechanical Design	Sem.	10-12	Graphic Comm/Required C grade	0.5 credit
Metalworking	Sem.	11-12	Intro to Metals <b>and either</b> Oxy-Acetylene <b>or</b> Shielded Arc Welding	0.5 credit
Shielded Metal Arc Weld.	Sem.	10-12	Introduction to Metals	0.5 credit, 2 DMACC credits
Small Engines (Power Engines)	Sem.	9-12		0.5 credit
Woodworking I	Sem.	9-12		0.5 credit

<b>Project Lead the Way</b>				
Intro to Engineering Design	Year	9-12	Completion or currently enrolled in Alg. I	1.0 credit 3 college credits
Computer Integrated Manufacturing	Year	11-12	Intro to Engin. Design/Principles of Engineering	1.0 credit 3 college credits
Digital Electronics	Year	11-12	Intro to Engin. Design/Principles of Engineering	1.0 credit 3 college credits
Principles of Engineering	Year	10-12	Intro to Engin. Design/Algebra 2 or Geometry	1.0 credit 3 college credits
<b>MATHEMATICS</b>				
Algebra 1	Year	9		1.0 credit
Algebra 1	Ext. Period	10-12		1.0 credit
Algebra II	Ex.Per/Yr	9-12	Geometry & Algebra 1	1.0 credit Both Semesters/ Yr Long
Algebra 2/Trigonometry	Ext. Period	10-12	Required A or B/both Alg 1& Geom & teacher recommendation	1.0 credit Both Semesters
AP Calculus AB	Ext. Period	11-12	Pre-Calculus/Required B grade	1.0 credit/Both semesters 5 DMACC credits
AP Calculus BC	Ext. Period	11-12	AP Calculus AB/Required B grade	1.0 credit Second Semester
AP Computer Science A	Ext. Period	10-12	Computer Science, Algebra II or equivalent	1.0 credit Second Semester
AP Statistics	Ext. Period	11-12	Algebra 2/Required B grade or better	1.0 credit/Both semesters 4 DMACC credits
Bridges to Algebra	Year	9	Recommendation by Staff	Year long, 1.0 credit
Computer Science	Ext. Period	10-12	Geometry/ Req. C grade for Algebra I & Geometry	1.0 credit Second Semester
Consumer Math	Ext. Period	11-12	Not open to students who have completed Algebra 2	1.0 credit Second Semester
Extended Algebra 1	1 Period/ Ext. Period	10-12	1 <sup>st</sup> Sem.-meets 1 period 2 <sup>nd</sup> Sem.-meets 2 periods	0.5 credit -1 <sup>st</sup> Semester 0.5 credit-2 <sup>nd</sup> Semester ( 0.5 Math Credit & 0.5 Elective-2 <sup>nd</sup> Sem.)
Geometry	Year	9	Algebra 1	1.0 credit Year Long
Geometry	Ext. Period	10-12	Algebra 1	1.0 credit Both semesters
Pre-Calculus	Ext. Period	10-12	Algebra II/Trig, Trig & Topics, Required B grade	1.0 credit Both Semesters
Tech Math 1	Ext. Period	10-12	Algebra I/Required C grade for DMACC credit **This course does not meet the recommended requirements for the NCAA clearinghouse or 4-yr college admission	3 DMACC credits Both semesters 1.0 credit
Tech Math II	Ext. Period	11-12	Tech Math I/Required C grade for DMACC credit **This course does not meet the recommended requirements for the NCAA clearinghouse or 4-yr college admission	1.0 credit 3 DMACC credits 2 <sup>nd</sup> semester
Trigonometry/Topics	Ex. Period	10-12	Required C grade in Algebra 2	1.0 credit Both Semesters

<b>MUSIC</b>				
<b>Instrumental Music</b>				
9th Grade Band	Year	9	Complete 8th gr. Band Director approval	0.5 credit
High School Band	Year	10-12	Complete 9th gr. Band Director approval	0.5 credit
<b>Vocal Music</b>				
Chamber Choir	Year	9	Auditions	0.5 cr., Meets Every Day
Chamber Choir	Year	10-12	Member of Concert Choir	0.5 credit, Selected by Audition
Concert Choir	Year	10-12	Audition	0.5 cr., Meets Every Day
Freshman Chorus	Year	9		0.125 credit Meets Alternate Days
Innovation	Year	10-12	Must be in Concert Choir Or Chamber Choir	.125 credit, Meets Alt Days/Auditions
Mixed Chorus	Year	10-12		0.25 cr., Meets Alt. Days
Music Theory	Sem.	11-12	Instructor Approval	0.5 credit, First Semester
Sound Advice	Year	9	Member in Freshman Chorus	Select by audition Non-credit activity
Synergy	Year	10-12	Member of Mix/Concert Choir req.	0.125 credit, Select by audition
<b>PE AND HEALTH</b>				
9th Grade Functional Fitness PE	Sem.	9		0.125 credit, Required Both Sem./meets alt.
Health	Sem.	10		0.5 credit, Required/ Both Semesters
Track One	Sem.	10-12	Individual/Personal Fitness	0.125 credit, Required/ Both Sem./meets alt.
Track Two	Sem.	10-12	Individual/Dual Recreation	0.125 credit, Required/ Both Sem./meets alt.
Track Three	Sem.	10-12	Team Games/Activities & Sports	0.125 credit, Required/ Both Sem./meets alt.
Track Four	Sem.	10-12	Strength & Conditioning for Athletic Power	0.125 credit, Required/ Both Sem./meets alt.
Track Five	Sem.	10-12	Cross Training for Life Long Fitness	0.125 credit, Required/ Both Sem./meets alt.
P.E.O.P.E.L.	Sem.	11-12	Track 7-instructor approval	0.125 credit, Required/ Both Sem./meets alt.
<b>Semester Long Block Courses</b>				
Kinesiology	Sem.	11-12	1-semester of Track 4/Bio or Anatomy & Physiology	0.50 credit Meets every day
Track Six	Sem/ Block	11-12	Outdoor Pursuits	0.250 credit, Required/ Second Semester only/ meets alternate days
<b>SCIENCE</b>				
Advanced Life Science: Animals	Semester	10-12	Biology	0.5 credit Both Semesters
Advanced Life Science: Plants	Semester	10-12	Biology	0.5 credit Both Semesters
Anatomy & Physiology	Year	11-12	Biology/Required C or better grade	1.0 credit Single Period All Yr

AP Biology	Year	11-12	Biology, General Chemistry/ B grade or better	1.0 credit/Single Period All Yr 4 DMACC credits
AP Chemistry	Year	11-12	Chemistry/ A or B Grade	1.0 credit, Single Period All Yr
AP Physics	Year	11-12	Algebra II/Trig or Trig/Topics, Physical Science	1.0 credit Single Period All Yr
Astronomy	Semester	9	Counts as elective credit	0.5 credit, Both Semesters
Biology	Year	9-12		1.0 credit, Single Period All Yr
Biotechnology	Semester	11-12	Biology	0.5 credit Both Semesters
Conceptual Physics	Year	10-12	Geometry, Physical Science	1.0 credit, Single Period All Yr
Environmental Science	Semester	10-12	Biology	0.5 credit Both Semesters
General Chemistry	Year	10-12	Algebra I, Physical Science	1.0 credit Single Period All Yr
Investigations in Science	Year	10-12	Permission of Counselor	1.0 credit, Single Period All Yr
Physical Science	Year	9		1.0 credit, Single Period All Yr
<b>SOCIAL STUDIES</b>				
American Government	Year	12		Required, 1.0 credit
AP Psychology	Year	11-12	Psychology	1.0 credit
AP U.S. History	Year	11	Satisfies US History Requirement	1.0 credit
AP World History	Year	10-12	Satisfies World History Requirement	1.0 credit
Applied Economics	Sem.	10-12	**This course does not meet the recommended requirements for the NCAA clearinghouse or 4-yr college admission	1 <sup>st</sup> Semester 0.5 credit
Modern World Studies	Year	10		Required, 1.0 credit
Principles of Economics	Sem.	11-12		2 <sup>nd</sup> Semester, 0.5 credit
Psychology	Sem.	11-12		Both semesters 0.5 credit
Social Issues	Sem.	10-12	Sociology	Both Semesters 0.5 credit
Sociology	Sem.	10-12		Both Semesters 0.5 credit
Topics in History	Sem.	9		Required/both Semesters 0.5 credit
U.S. History	Year	11		Required, 1.0 credit
<b>WORLD LANGUAGE</b>				
AP French	Year	12	French IV with C- or better grade	1.0 credit JHS 4 DMACC cr. each Sem.
AP Spanish	Year	12	Spanish IV with C- or better grade	1.0 credit JHS 4 DMACC cr. each Sem.
French I	Year	9-12	C Grade in English previous year	1.0 credit
French II	Year	9-12	French I with C- or better grade	1.0 credit
French III	Year	10-12	French II with C- or better grade	1.0 credit
French IV	Year	11-12	French III with C- or better grade	1.0 credit

Spanish I	Year	9-12	C Grade in English previous year	1.0 credit
Spanish II	Year	9-12	Spanish I with C- or better grade	1.0 credit
Spanish III	Year	10-12	Spanish II with C- or better grade	1.0 credit
Spanish IV	Year	11-12	Spanish III with C- or better grade	1.0 credit
<b>NON-DEPARTMENTAL</b>				
9th Grade Seminar	Year	9	Elective ----- **This course does not meet the recommended requirements for the NCAA clearinghouse or 4-year college admission	1.0 credit
ELL	Year	10-12		May be taken each year
ELP 10-12	Year	10-12	Instructor Approval	0.250 cr. alternate days or 0.5 credit taken every day
Independent Study	Sem.	11-12	Supervisor Application/May be repeated/No scheduled Hour	0.5 credit
Service Credit	Sem.	9-12	Supervisor Application/May be repeated/No scheduled Hour	0.5 credit
<b>SPECIAL EDUCATION</b>				
EBCE	Year	11-12	Approval of Staffing Team	1.0 credit
Skill Development	Year	9-12	Approval of Staffing Team	1.0 credit
<b>CENTRAL ACADEMY Admission to Program Required</b>				
Course Offerings are subject to availability as determined by the Des Moines Public Schools				
Des Moines Public offers these courses on an alternating day block format				
Animal Science & Hortic.		10-12		
Army JROTC		9-12	Application	
Aviation Technology		10-12	Math, Science and good attendance	
Auto Collision Repair		11-12	Tech Ed. Course recommended	
Automotive Technology		11-12	Tech Ed. Course recommended	
Broadcast & Film		11-12	C or better in Speech & English	
Career Opport. In Health		11-12	2.5 GPA, Application, Teacher Recommendation	
Comm. Photography Tech.		11-12	Minimum 2.5 GPA or acceptable art classes.	
Computer Aid Draft & Design		11-12	Drafting Recommended	
Computer Tech & Network		11-12	Computer Application, B or better	
Culinary Arts & Rest Management		10-12	Food Course Recommended, 2.0 GPA	
Early Childhood Careers		11-12	Child Development Recommended, 2.0 GPA	
Engineering , Robotics & Electronics		10-12	C or better in Algebra 1	
Fashion Design & Merchandising		10-12	Fashion or Sewing Tech with B grade or better.	

Graphic Communication		10-12	Acceptable art or technology course work.	
Home Building		10-12	Algebra/Geometry/Intro to Tech	
Industrial Electricity		11-12	Intro to Technology	
Iowa Energy & Sustainability		9-12		
Marine Biology/Lab		10-12	2.5 GPA with C grade in Biology, English & Geometry or Alg. II	
Nurse Aide & Adv. Nurse Aide		11-12	2.0 GPA, offered Fall	
Nurse Aide Specialist		11-12	2.5 GPA	
Painting and Drywall		10-12	Intro to Technology	
Broadcasting & Film		11-12	C grade in Speech & English	
Teacher Academy		11-12	2.5 GPA	
Welding Technology		11-12	Intro to Technology	
<b>Central Campus Language Course Offerings</b>				
Chinese I		9-12		
Chinese II		10-12	Chinese I	
Chinese III, IV & V		11-12	Previous year's level	
German I		9-12		
German II		10-12	German I	
German III, IV & V		11-12	Previous year's level	
Italian I		9-12		
Italian II, III, IV, V		10-12	Italian I	
Japanese I		9-12		
Japanese II, III & IV		10-12	Japanese I	
<b>DMACC ON CAMPUS CAREER ADVANTAGE</b>				
<b>See Counselor for JHS credit and DMACC credit</b>				
Course Offerings are subject to availability as determined by DMACC				
Auto Collision		11-12	Ankeny Campus	
Auto Tech		11-12	Ankeny Campus	
Business Administration		11-12	Ankeny Campus	
Criminal Justice		11-12	Ankeny Campus	
Culinary Arts		11-12	Ankeny Campus	
Diesel/Caterpillar		11-12	Ankeny Campus	
Digital Electronics		11-12	Ankeny Campus	
Health Occupation		11-12	Ankeny Campus	
Machine Operations Tool/Die		11-12	Ankeny Campus	
Visual Communications		11-12	Ankeny Campus	

**9<sup>th</sup> Grade Art** – 0.5 credit (half year)

**Prerequisites  
Offered**  
*Elective Course*

**None**  
**Semester Long**  
*9<sup>th</sup> grade*

This course is designed as an introduction to art as a form of expression. Students will do studio projects on basic drawing, painting, printmaking, clay, sculpture, and graphic design. Art history, art criticism, aesthetics and art production, with emphasis on the understanding and use of the elements and principles of design, will be covered through the studio projects. Technical and problem solving skills will be developed throughout the course.

**Clay** – 0.5 credit (half year)

**Prerequisites  
Offered**  
*Elective Course*

**None**  
**Semester Long**  
*10-12<sup>th</sup> grade*

Clay is an 18-week exploration into the nature of the ceramic arts. The course provides investigation into traditional and contemporary techniques of clay and ceramic material, exploring them both aesthetically and functionally. Coiling, slab construction, build-up and the potter wheel are all used to solve a number of 3-dimensional problems of a personally expressive nature. Thinking and drawing are studied briefly in the beginning of the semester to ensure both understanding and success in the clay experiences that follow.

**Design I** – 0.5 credit (half year)

**Prerequisites  
Offered**  
*Elective Course*

**None**  
**First Semester**  
*10-12<sup>th</sup> grade*

Design I is a semester course designed to explore the phenomenon of design as both a creative, problem-solving process and as a refined, functional product. Graphic design in advertising and the pictorial arts, calligraphy, commercial package designs and furniture designs are explored in 2-dimensional format. Basic techniques are introduced and refined through self and group criticism. Design I introduces a basic understanding of the visual language as well as studying how problem-solving and designing objects affect human life. The course is designed to explore design history, improve mental fluency and build both thinking and fine motor skills in its participants.

**Design II** – 0.5 credit (half year)

**Prerequisites  
Offered**  
*Elective Course*

**Design I**  
**Second Semester**  
*10-12<sup>th</sup> grade*

Design II is a semester course of study with continued exploration of problem-solving and the creating of objects making the transition into 3-dimensional form. The course explores color interaction and color expression in a number of design experiences including the construction of an environmental design model, integrating found objects in an assemblage, and the creating of a musical instrument. The experiences in Design I and Design II should leave the student with an emerging 2 and 3 dimensional visual studies portfolio.

**Drawing – 0.5 credit (half year)**

**Prerequisites  
Offered**  
*Elective Course*

**None**  
**Semester Long**  
*10-12<sup>th</sup> grade*

Drawing is an advanced semester course designed to explore mark-making and traditional drawing experiences. Units of learning are based in functions of drawing, building thinking skills and constructs of creativity. Experiences include graphite, charcoal, pastels, ink, paint and an environmental drawing. Drawing students refine portfolios in 18 weeks through individual and group criticism.

**Essentials of Art – 0.5 credit (half year)**

**Prerequisites  
Offered**  
*Elective Course*

**None**  
**Semester Long**  
*10-12<sup>th</sup> grade*

Essentials of Art is a course designed to explore the universal functions of art, the nature of expression when making art forms, and the introduction of criticism in the studio art experience. Techniques in drawing, painting, printmaking, ceramics and sculpture are studied for individual growth and expression. The learning experiences are constructed to build visual literacy, thinking skills and investigate visual arts history as a resource.

**Introduction to Drawing – 9<sup>th</sup> grade – 0.5 credit (half year)**

**Prerequisites  
Offered**  
*Elective Course*

**None**  
**Semester Long**  
*9<sup>th</sup> grade*

Drawing is a course specifically for freshman that explores the many different aspects of drawing using a variety of materials and techniques. Students will work with pencil, charcoal, pastel, watercolor, and ink. Students will learn technical and creative drawing skills while also studying the areas of aesthetics, art criticism, and drawing history.

**Painting – 0.5 credit (half year)**

**Prerequisites  
Offered**  
*Elective Course*

**Drawing**  
**Second Semester**  
*11-12<sup>th</sup> grade*

Painting is an advanced semester course of study designed to build upon the concepts presented in the prerequisite course. Students experience painting history and contemporary applications of painting through research and the development of a painting portfolio. Painting experiences include water-based and oil-based pigments ranging from light-logical color studies to highly expressive and individual applications of paint as a medium. The painting student should leave the course with a number of refined painted works for a portfolio and a basic understanding of painting history.

**Peer Partner Art – 0.25 credit (half year)****Prerequisites****Must complete an application and submit to instructor for approval****Offered****Both Semesters***Elective Course**10-12<sup>th</sup> grade*

Peer Partner Art is a course designed to make positive student connections through the visual arts. The emphasis will be to assist special needs students as a “creative coach” in the modified art curriculum. Art projects will include both 2-dimensional and 3-dimensional activities. The class is a unique opportunity to enhance a student’s potential for independence through the visual arts.

\*\*Instructor approval required for this course. Students interested in becoming a peer coach need to complete an application and submit to instructor for approval. Applications will be available in the Guidance Office and when completed, return to the Guidance Office.

**Photo Art I – 0.5 credit (half year)****Prerequisites****None****Offered****Semester Long***Elective Course**10-12<sup>th</sup> grade*

Photo Art 1 is an entry-level course that presents a study of art through both black and white photography and basic digital applications. Functions of art, the nature of individual expression, the history of photography and art criticism are explored throughout this course. In addition, students will learn and practice fundamental 35mm camera functions, darkroom techniques and digital imaging programs. Students are required to supply their own film and photo paper. It is highly recommended that students supply their own 35mm and digital cameras for completion of this course.

**Photo Art II – 0.5 credit (half year)****Prerequisites****Photo Art I****Offered****Semester Long***Elective Course**10-12<sup>th</sup> grade*

This course is designed to build upon the basic photography and digital applications of its prerequisite course. Further exploration and refinement of camera, darkroom techniques and digital programs culminate in the forming of an individual portfolio which resolves the 18-week study. Students must supply paper and film for completion of the course units. It is highly recommended that each student supply his/her own cameras for assigned work.

**Accounting I – 1.0 credit (year course)**

**Prerequisites Offered**  
*Elective Course*

**None Yearlong**  
*9-12<sup>th</sup> grade*

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 be used for this course that will prepare anyone for a future in business.

**Accounting II – 1.0 credit (year course)**

**Prerequisites Offered**  
*Elective Course*

**Accounting I Yearlong**  
*11-12<sup>th</sup> grade*

A student interested in business in college or as a career is advised to take a second year of accounting. The second year course is computer-based using simulations and real world scenarios.

**Advertising and Sales – 0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**None Semester Long**  
*10-12<sup>th</sup> grade*

Advertising and Sales will be an exciting and eventful class that allows students to create a business relevant to their interests and prior knowledge. Students will develop skills to promote and sell the business while learning effective customer service. Students will relate areas such as advertising, sales promotions, branding, packaging, visual merchandising, and personal selling to their business throughout the semester.

**Business Applications – 9<sup>th</sup> grade – 0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Computer Applications Semester Long**  
*9<sup>th</sup> grade*

This class does not fulfill the required credit for technology. This is an elective class. Students will learn to make graphics, create songs, and develop animations. A variety of software will be used including Adobe Photoshop and Flash. Projects will be linked to real world clients and deadlines.

**Computer Applications – 0.5 credit (half year)**

**Prerequisites Offered**  
*Required Course*

**None Semester Long**  
*9<sup>th</sup> grade Meets Technology Requirement*

Students will develop basic skills of computing by using Microsoft Office Suite. Students will learn to use Microsoft Word, Excel and PowerPoint. **This course does not meet the recommended requirements for the NCAA clearinghouse or four-year college admission.**

**Co-op Work (class only) – 1.0 credit (year course)**

**Prerequisites Offered**  
*Elective Course*

**None**  
**Yearlong**  
*11-12<sup>th</sup> grade*

The co-op work class provides students with relevant instruction on independent living. The class focuses on future plans and goals with the study of career assessment, career and post-secondary research, job seeking skills, and the work force. Student should be involved in an extra-curricular activity either in or out of school or have a job to be in the course.

**Co-op Work Plus (Class and Job) – 1.0 credit (year course)**

**Prerequisites Offered**  
*Elective Course*

**Must have a job that allows an average of 10 hours/week**  
**Yearlong**  
*11-12<sup>th</sup> grade*

**DMAAC Credit: ADM 259 (First Semester)**  
**DMACC Credit: ADM 265, 937 (Second Semester)**

The co-op work program combines independent living instruction with supervised learning on the job. The in-class portion focuses on future plans and goals with the study of career assessment, career and post-secondary research, job seeking skills, the work force, personal finance, money management, and independent living. The job site provides students with practical work experience as well as training and networking with community business people. Students in Co-op Work Plus will have the opportunity to earn two Johnston credits and six elective DMACC credits, transferable to most colleges and universities.

**Graphic, Sound, and Animation Design – 0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Computer Applications**  
**Semester Long**  
*10<sup>th</sup>-12<sup>th</sup> Grade*

Students will learn to make graphics, create songs, and develop animations. A variety of software will be used include Adobe Photoshop, Illustrator, and Flash. Projects will be linked to real world clients and deadlines.

**Introduction to Business – 0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**None**  
**Semester Long**  
*10-12<sup>th</sup> Grade*

This class will introduce you to the exciting and challenging world of business. You will be more prepared as a knowledgeable consumer, well-prepared employee, and effective citizen of our economy. This course will serve as a background for other business courses you will take in high school and in college, as well as prepare you for future employment or business ownership, and help you to better understand our economy. 9<sup>th</sup> grade students will combine Money Management for a one year course.

**Law for Business and Personal Use – 0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**None**  
**Semester Long**  
*10-12<sup>th</sup> Grade*

Law for Business and Personal Use studies the interaction between law and justice both as an employer and a

consumer. Students will study ethics in the legal system, contract, criminal, and employment law, and will discuss real world issues of credit, insurance, banking, and bankruptcy. Students will see the relevance of what they are studying through case studies and case debates. This course will be helpful for students planning to attend college and major in business. This is an advanced business course.

**Money Management – 0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**None**  
**Semester Long**  
*10-12th Grade*

Learn how to make money and keep it. This class will teach you everything you need to know about spending money wisely, banking, saving, investing, and using credit. The 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 an adult, in charge of their own financial well-being. 9<sup>th</sup> grade students will combine Introduction to Business for a one year course.

**Sports and Entertainment Marketing – 0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**None**  
**Semester Long**  
*10-12<sup>th</sup> Grade*

Why do movies premiere on Fridays? Why do teams build new sports stadiums? Why is YouTube so important to bands? You will find out the answers to these questions in Sports and Entertainment Marketing. Students will learn how marketing works in movies, sports venues, music, fashion, sports teams, video gaming, and television. Real world scenarios will be used for this course, as students will have the opportunity to work with local sports and entertainment venues.

**Video Production – 1.0 credit (year course)**

**Prerequisites Offered**  
*Required Course*

**Journalism, Computer Applications or Graphic Communication**  
**Yearlong**  
*10-12<sup>th</sup> grade*

Students enrolled will experience all aspects of broadcast journalism. Their productions will be broadcast to the school during a weekly news show. Students will be in charge of the stories they produce, which includes finding stories, filming, and editing the finished product. Topics covered include shooting techniques, interviewing, integration of audio, lighting, camera operation, writing scripts, unbiased reporting and editing. Students must work well with others, as most story assignments will require a reporter and a camera operator. Students must appear on camera at times, as an anchor for the news show. Students will evaluate the work of others, as well as their own productions.

**Web Design – 0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Advanced Computer Applications**  
**Semester Long**  
*10-12<sup>th</sup> Grade*

Students will learn the elements of web design and development. A variety of software will be used including Adobe Fireworks, Dreamweaver, and Flash. Students will connect their web projects with their other content areas.

This chart shows what courses are required at each grade level and what elective options students have in the English Department. See the course description for any pre-requisites.

Students should select the Frameworks and Capstones courses that most interest them.

	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Required	Freshman English (1 Credit)	ILA (1 credit)	1 Frameworks 1 (.5) 1 Frameworks 2 (.5)	Any additional Frameworks course and/or any Capstone Course (.5 credits per semester).
Frameworks 1— Available to 9 <sup>th</sup> & 10 <sup>th</sup> graders	Journalism (.5)	Journalism (.5)		
Electives— do not count as English credits toward graduation	Creative Writing	Read 180 Drama Debate	Read 180 Drama Debate	Read 180 Drama Debate

*Recommended Course Progression*

- All students are required to take 9<sup>th</sup> grade English—9<sup>th</sup> graders may enroll in Journalism which is a Frameworks 1 course.
- Sophomores will take Integrated Language Arts
- Juniors take a Frameworks 1 and Frameworks 2 course
- Seniors take two courses, either Capstones or Frameworks
- Students who want more rigorous work will choose complex texts, topics, and assignments within the English curriculum. We recommend that students speak with their English teachers throughout each semester to discuss what sort of challenges that they would like to pursue.
- Juniors and seniors who want to accelerate their course sequence must visit with their current High School English teacher to prepare a plan.
- **Since lab space will limit the number of sections that a course may be offered, students need to be aware that even though they sign up for a course, they may not be able to enroll/take the course during the coming year. An alternate course may need to be selected.**

**Freshman English – 9<sup>th</sup> grade – 1.0 credit (year course)**

**Prerequisites Offered**  
*Required Course*

**None**  
**Yearlong**  
*9<sup>th</sup> Grade*

Freshman English is a yearlong required course for all students. Student learning goals, outlined in our district Standards and Benchmarks, blend four literacy strands (reading, writing, listening, and viewing). Students may look forward to authentic writing and competition opportunities as well as collaborative learning and discussion over common texts such as *Romeo and Juliet*, *The Odyssey*, *The Usual Rules*, and various literature titles.

**ILA (Integrated Language Arts) – 10<sup>th</sup> grade –1.0 credit (year course)**

**Prerequisites Offered**  
*Required Course*

**Freshman English**  
**Yearlong**  
*10-12<sup>th</sup> Grade*

ILA is a year-long (2 semester) course which focuses on the 5 strands of the Iowa Common Core: Reading, Writing, Speaking, Viewing, Listening. Throughout the course, students are provided opportunities to develop/advance their skills in these areas through whole-class and student selected-choice activities.

*Students chose one course from Frameworks I and one course from Frameworks II junior year.*

**FRAMEWORKS I COURSES**

In a Frameworks I course, we are expected to read a variety genres, complete at least three "process" writings, three speaking/presentation opportunities, develop effective viewing and listening skills.

**A Teen in the World –0.5 credit (half year)**

**Prerequisites Offered**  
*Frameworks I Course*

**Integrated Language Arts**  
**Semester Long**  
*11-12<sup>th</sup> Grade*

A Teen in the World examines the various ways that teens define, create and live in the world. We will look at how teens move through the complicated world of young adulthood, how they develop as individuals, and how they manage conflict, peer pressure, parents, and social expectations.

**Heroic Men and Women –0.5 credit (half year)**

**Prerequisites Offered**  
*Frameworks I Course*

**Integrated Language Arts**  
**Semester Long**  
*11-12<sup>th</sup> Grade*

Heroic Men and Women answers the question, "What is a hero?" Readings are drawn from a variety of areas including fantasy, ancient legend, and contemporary culture. We will work toward a deeper understanding of how the individual can have a powerful impact on our world, and how the heroic acts of individuals can inspire all of us.

**Journalism** –0.5 credit (half year)**Prerequisites****Offered***Frameworks I Course***None****Semester Long***9-12<sup>th</sup> Grade*

Most colleges encourage high school students to take a journalism course, so here is your chance! Journalism courses teach the skills that colleges want students to have. Aspiring photographers, writers, computer whizzes, and designers are invited. We will study photography, design, writing, law and ethics, and learn to use InDesign and PhotoShop.

**On the Road** –0.5 credit (half year)**Prerequisites****Offered***Frameworks I Course***Integrated Language Arts****Semester Long***11-12<sup>th</sup> Grade*

On the Road explores various journeys, both metaphorical and physical, and invites us to think about how we grow and change from the journey experience. Of particular interest will be encounters with different places, people, and cultures, three of the things that make the world we live in so rich and vibrant. The journeys we take will be literary, but they will give us a chance to do some real critical thinking about the perseverance, courage, and spirit of the common person. What we take away from these encounters, how they change us, affect us, and influence our own lives, will also be of primary importance.

**Power of Persuasion** –0.5 credit (half year)**Prerequisites****Offered***Frameworks I Course***Integrated Language Arts****Semester Long***11-12<sup>th</sup> Grade*

Power of Persuasion studies various skills involved in argument. Over the course of the term, we will examine how to write and speak persuasively, read many examples of good and not-so-good arguments, and practice analytical strategies that will help us approach arguments critically and make observations about their effectiveness. By the end of the semester, we will have a much better idea of how to set ourselves up for success when arguing with others.

**Sport, Competition and Culture** –0.5 credit (half year)**Prerequisites****Offered***Frameworks I Course***Integrated Language Arts****Semester Long***11-12<sup>th</sup> Grade*

Sport, Competition and Culture addresses the various ways that sport appears in and shapes our culture. The quest for victory and the frustration of failure shape and define us in ways we do not imagine. Through studying traditional and non-traditional sports and competitions, we will grapple with cultural values of competition, sacrifice and reward.

**Working it Out: Communicating in Careers** –0.5 credit (half year)**Prerequisites  
Offered***Frameworks I Course***Integrated Language Arts  
Semester Long***11-12<sup>th</sup> Grade*

Working It Out studies the communication strategies that are used after high school, whether in college or at work. Students will speak, write, read, and work as individuals and in groups. By the end of this course students will have studied some literature about Corporate America and their potential roles in it.

*Students chose one course from Frameworks I and one course from Frameworks II junior year.*

**FRAMEWORKS II COURSES**

In a Frameworks II course, we are expected to read a variety genres, complete at least three "process" writings, three speaking/presentation opportunities, develop effective viewing and listening skills.

**Cross Currents** –0.5 credit (half year)**Prerequisites  
Offered***Frameworks II Course***Integrated Language Arts  
Semester Long***11-12<sup>th</sup> Grade*

Cross Currents is for the kind of student who wants to read about something beyond “the same old English stuff.” We will address a wide range of literature not traditionally read in an English class that builds on other areas studied in school. Interested in Math? Science? History? Sociology? This could be the class for you!

**Culture Clash** –0.5 credit (half year)**Prerequisites  
Offered***Frameworks II Course***Integrated Language Arts  
Semester Long***11-12<sup>th</sup> Grade*

Culture Clash studies the positive and negative interactions between colliding cultures and the ways they have affected and shaped how we read, think, and live. Since culture means “shared values and beliefs,” a result of this class will be a dynamic understanding of groups of people with very different backgrounds and attitudes.

**Genders' Game** –0.5 credit (half year)**Prerequisites  
Offered***Frameworks II Course***Integrated Language Arts  
Semester Long***11-12<sup>th</sup> Grade*

Genders' Game addresses the issues surrounding gender in history, literature, pop culture, and around the world. Careful analysis will help us to deconstruct gender in a variety of contexts. By the end of the course, we will have thoroughly examined images of men and women through art, text, media, and film.

**Pushing the Limits** –0.5 credit (half year)**Prerequisites  
Offered***Frameworks II Course***Integrated Language Arts  
Semester Long***11-12<sup>th</sup> Grade*

Pushing the Limits explores the outer limits of human imagination, experience and endurance. We will look at how human beings find the strength to survive in tough situations, how they make amazing discoveries, how they deal with extreme emotion, etc. As a result of this class, we will be able to address questions like: “How do people rise above their own situations? How do people find that spark within them that keeps them going? How do they push the boundaries, either within themselves or in society?”

**Reading Lab: A Reader’s World** –0.5 credit (half year)**Prerequisites  
Offered***Frameworks II Course***Integrated Language Arts  
Semester Long***11-12<sup>th</sup> Grade*

Reading Lab offers a variety of texts and builds strategies for comprehension, interpretation, analysis, and evaluation of reading materials. Student choice will drive text selection; writing and speaking will serve as outlets for processing reading. At the completion of the course, we will have added to the reading toolbox.

**Reading the Screen** –0.5 credit (half year)**Prerequisites  
Offered***Frameworks II Course***Integrated Language Arts  
Semester Long***11-12<sup>th</sup> Grade*

Reading the Screen builds a critical vocabulary that will allow us to approach films as artistic texts. We will learn the basics of film craft, and revisit such concepts as conflict, characterization, setting, metaphor, symbolism, etc. in order to analyze how they work within movies. Readings in film theory will help guide this aspect of the class. We will also examine how literary texts like novels and plays make their way to the movie screen, and how these texts are altered by movie conventions. Significant viewing of scenes, longer segments, and entire films, will, of course, be an important part of this class. A main emphasis of the course will be the careful analysis of film through the lens of literature.

**The Creative Mind** –0.5 credit (half year)**Prerequisites  
Offered***Frameworks II Course***Integrated Language Arts  
Semester Long***11-12<sup>th</sup> Grade*

The Creative Mind, through study of poetry, fiction, drama, and creative nonfiction, pursues what inspires writers as they cull their own creative impulses to create their own original works. How place, character, memory, language, etc serve as inspirational “sparks” will also be examined. By the end of the course, we will demonstrate our understanding of the creation process through creative work.

**CAPSTONE COURSE**

Students may enroll in a Capstone course upon successfully completing ILA, Frameworks I and Frameworks II.

**CAPSTONE COURSES**

Capstone courses offer more advanced or intensive study of a particular facet of English/Language Arts. They are designed to be taken after completing Frameworks courses. All Capstone courses will integrate reading, writing, speaking, viewing and listening. Students can sometimes earn college credit through DMACC in these courses.

**Prerequisite for all Capstone courses:** successful completion of ILA, Frameworks I and II.

**Advanced Speech/DMACC Speech 101 –0.5 credit (half year)****Prerequisites****Offered***Capstone Course***Integrated Language Arts****Semester Long***12<sup>th</sup> Grade*

This course explores the fundamentals of speech-communication through the study and practice of interpersonal and small group communication and the composition and delivery of various speeches given in and out of the classroom. Advanced Speech addresses the history of rhetoric, communication theory, and stresses the importance of critical research to support both writing and speaking skills. Advanced Speech is a DMACC dual-credit course designed to fulfill the requirements of an introductory college communications course.

**AP Literature and Composition (DMACC Lit. 101 & English 105) –1.0 credit (year course)****Prerequisites****Offered***Capstone Course***Successful completion of Junior level English****Semester Long***12<sup>th</sup> Grade*

Advanced Placement Literature and Composition is a year-long course designed to develop our critical reading, writing, and thinking skills related to the analysis, investigation and critique of literature. It is for high school students capable of doing college-level work in English who are dedicated to devoting the necessary time and energy to a rigorous and challenging course. We will acquire the critical skills and technical vocabulary necessary to effectively articulate the analysis of literature. We will often be asked to "go beyond" the text to accumulate research and pursue inquiries instigated by the readings. A rigorous writing process will be employed to help us sharpen our writing skills and effectively articulate their study of the literature. The course is designed with curricular requirements described in the AP English Course Description and will prepare us to take the AP Literature and Composition exam in the spring as well as for life-long learning. Further, students can earn 6 credits from DMACC for meeting competencies of Literature 101 and English 105.

**Creative Explorations –0.5 credit (half year)****Prerequisites****Offered***Capstone Course***Creative Mind****Semester Long***12<sup>th</sup> Grade*

Having learned the foundations of creative writing in ILA and Frameworks II, students who enroll in Creative Explorations are interested in spending an intense semester working as a poet, fiction writer, or playwright. After a period of review in the basic creative forms, including significant reading, students will have the opportunity to pursue one of the creative genres (fiction, poetry or drama) in depth. Students will spend a great deal of time extending their reading in their chosen genre, and engaging in workshop discussions with peers and the instructor. Students will work toward a short book length collection of poetry or fiction, or a one act play. Students who sign up for this course must be willing to make a significant time commitment to learning what makes their chosen genre work. Students at this level are anxious to find a larger audience for their work, and will engage in conversations about how audience and genre leads to particular types of publication opportunities. In short, we will be living as part of a community of writers.

**Digital Storytelling** –0.5 credit (half year)

**Prerequisites Offered**  
*Capstone Course*

**Reading the Screen Semester Long**  
*12<sup>th</sup> Grade*

Digital Storytelling allows students through reading, writing, listening, speaking, and viewing to take a detailed approach at the artistic texts of storytelling. In this advanced course, we will be taking a deeper look at digital, global, technology, information, and visual literacy. We will be spending time analyzing film craft, revisiting literary concepts, and introducing film theory. We will be analyzing written fiction and non-fiction, as well as, film and documentary throughout the course to examine the creation and effectiveness of these different texts. Throughout the study, we will be writing and applying analysis creatively.

**Ideas that Changed the World** –0.5 credit (half year)

**Prerequisites Offered**  
*Capstone Course*

**Successful completion of ILA and Frameworks I and II Semester Long**  
*12<sup>th</sup> Grade*

Students will be looking at different ideas that created a shift or a change in the way that individuals and groups think about the world. These ideas span the philosophical realms of world religions, political and social thought. Examples of topics may include: philosophical foundations, the role of disobedience and social order, changing attitudes in race and gender, the diversity of religious beliefs. Each topic will be addressed through a variety of genres from World and American literature.

**ELECTIVE COURSES**

Students may enroll in elective courses throughout high school if appropriate prerequisites have been met. These courses **do not** count toward English department credit.

**9<sup>th</sup> Grade Reading Lab** –0.5 credit (half year)

**Prerequisites Offered**  
*Elective Course*

**None Semester Long**  
*9<sup>th</sup> Grade*

Reading Lab is considered an extension to the 9<sup>th</sup> grade language arts class. Students eligible for reading lab have been identified as non-proficient readers and have been recommended as benefiting from the supplemental reading course. Reading lab is a supplemental reading course that focuses on building reading fluency, comprehension skills, and vocabulary development. Lessons and activities are designed to best meet the individual needs of students enrolled in reading lab.

**Acting (does not qualify as an English credit)** –0.5 credit (half year)

**Prerequisites Offered**  
*Elective Course*

**None Semester Long**  
*10-12<sup>th</sup> Grade*

Acting introduces various aspects of theatre and should be taken by anyone who looks to acting as recreation or for career possibilities. Students will be expected to memorize lines, compose character analysis papers, act on-stage, and participate in an evening production. Acting is a one semester, elective course with no prerequisites. **Acting does NOT qualify as an English credit for graduation.**

**Creative Writing – 9<sup>th</sup> grade –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**None**  
**Semester Long**  
*9<sup>th</sup> Grade*

This class does not fulfill a required credit for Language Arts. This is an elective class.

Creative Writing is a portfolio-based semester elective. The class will focus on the process of producing quality creative pieces (short stories, poems, songs, etc.) We will focus on a workshop atmosphere with extensive revision of students' writing. Students will learn to give meaningful feedback to other writers as well as identifying and problem-solving issues in their own work. Mini-lessons will focus on the narrative arc, dialogue in fiction, metaphors, symbols in poetry, etc. Writers will be able to choose their genre focus for the class, though everyone will participate in mini-lessons regardless of their genre preference. The class will stress quality of writing rather than quantity, though each student will be expected to share their progress and new writing on a bi-weekly basis in a group writing workshop. At the end of the semester, each student will compile a portfolio of their best work and reflect on their progress as a writer in regards to the standards and benchmarks.

**Debate (Does not qualify for an English credit) –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**None**  
**First Semester**  
*10-12<sup>th</sup> Grade*

This class will follow the Public Forum Debate style. This class will utilize both the IHSSA and NFL format of events. This class will teach students how to research, how to reason, analyze and communicate arguments in an effective manner. Students will write debate briefs and cases. The final exam—a requirement to pass the class—is to actually compete at an IHSSA/NFL sanctioned tournament in the month of October, November or December. **Debate does NOT qualify as an English credit for graduation.**

**Honors Newspaper –1.0 credit (year course)**

**Prerequisites Offered**  
*Elective Course*

**At least one semester of newspaper**  
**Yearlong**  
*11-12<sup>th</sup> Grade*

**(Students may apply for admission at midyear)**

Students serving in top-level editor positions on the newspaper staff take this course. Students must enroll in Newspaper to be eligible. It may be repeated as long as the student is in a leadership position. Students are expected to create advanced photos, writing, and design. In addition, they will assign and edit all material before it is published. This is an elective class. A student can earn 1.0 credit per year.

**Honors Yearbook –1.0 credit (year course)**

**Prerequisites Offered**  
*Elective Course*

**At least one semester of yearbook**  
**Yearlong**  
*11-12<sup>th</sup> Grade*

**(Students may apply for admission at midyear)**

Students serving in top-level editor positions on the yearbook staff take this course. Students must enroll in Yearbook to be eligible. It may be repeated as long as the student is in a leadership position. Students

are expected to create advanced photos, writing, and design. In addition, they will assign and edit all material before it is published. This is an elective class. A student can earn 1.0 credit per year.

### **Newspaper** –1.0 credit (year course)

**Prerequisites**  
**Offered**  
*Elective Course*

**Journalism and approval of instructor**  
**Yearlong**  
*9-12<sup>th</sup> Grade*

**(Students may apply for admission at midyear)**

Actually practice skills colleges look for in students. Learn to capture photos that tell a story. Learn to write better. Learn to design layouts people want to view. Learn to work as part of a team. In this course, you will create a newspaper for the student body. Students may repeat the course as many as three times if they take it starting the second semester of their freshman year. This is an elective class. A student can earn 1.0 credit per year.

### **Read 180** –1.0 credit (year course)

**Prerequisites**  
**Offered**  
*Elective Course*

**Permission of Counselor**  
**Semester Long**  
*10<sup>th</sup> Grade*

Read 180 is a specialized class for students who need additional help to improve their reading skills. The specialized curriculum gives students the opportunity to work on reading skills in several ways: large group discussions, small group settings, and computerized tutorials. The self-contained reading library allows students to find interesting books to read that are appropriate for their reading level. The class typically involves a one-year commitment from the student. Placement in Read 180 will take into consideration standardized test scores, teacher recommendations, and past achievement in English course work. **Students will receive both an English and elective credit for this course.**

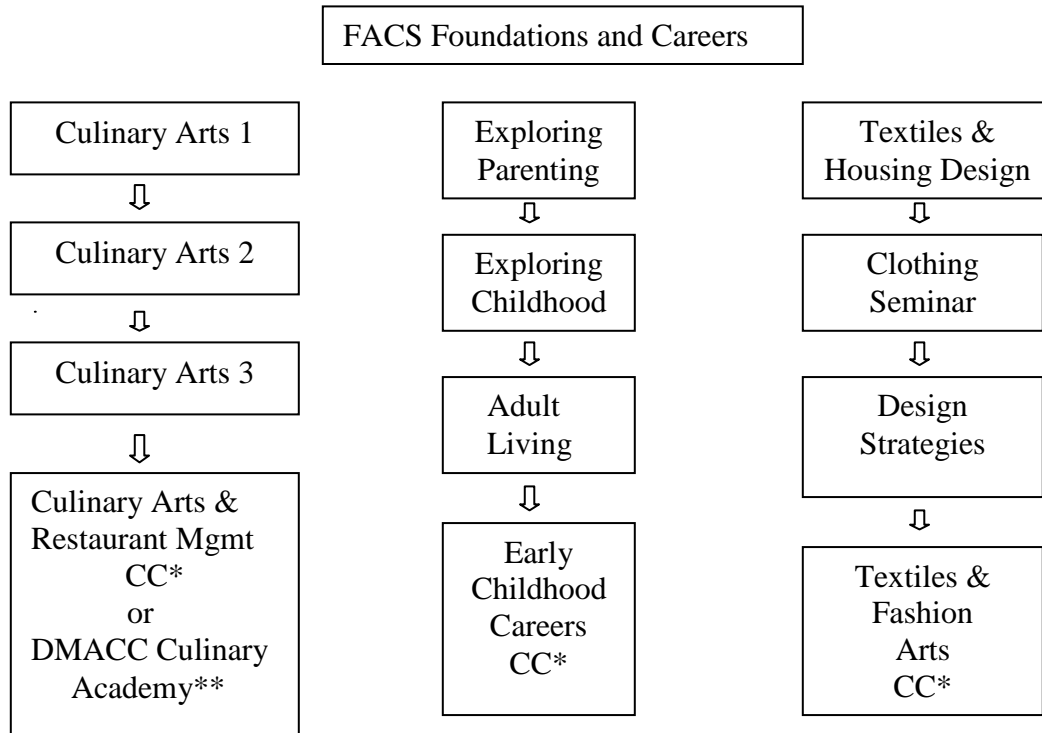
### **Yearbook** –1.0 credit (year course)

**Prerequisites**  
**Recommended Materials**  
**Offered**  
*Elective Course*

**Journalism and approval of instructor**  
**None**  
**Yearlong**  
*9-12<sup>th</sup> Grade*

**(Students may apply for admission at midyear)**

Actually practice skills colleges look for in students. Learn to capture photos that tell a story. Learn to write better. Learn to design layouts people want to view. Learn to work as part of a team. In this course, you will create a history book people will always remember. Students may repeat the course as many as three times if they take it starting the second semester of their freshman year. This is an elective class. A student can earn 1.0 credit per year.



- \*See page 71: Central Campus Classes
- \*\*See page 80: DMACC On Campus Career Advantage Program

**Family and Consumer Sciences Foundations and Careers –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**None**  
**Semester Long**  
*9-12<sup>th</sup> Grade*

This is a semester course designed to offer students experiences in the various cluster areas of food and nutrition, textiles and clothing, housing and living space, parenting, and consumerism. Course goals include career awareness and the development of basic knowledge and skills that prepare students for future courses offered in Family and Consumer Science.

This course is a prerequisite to any other offerings in the Family and Consumer Science department.

**ARTS/AV TECHNOLOGY & COMMUNICATIONS CLUSTER: VISUAL ARTS PATHWAY**

**Clothing Seminar –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Family and Consumer Science**  
**First Semester**  
*10-12<sup>th</sup> Grade*

Experience clothing from fabric to fashion to retail stores. Examination of wardrobes, textiles, clothing purchase and care, clothing construction and entrepreneurial opportunities are part of this class.

**Design Strategies –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Family and Consumer Science  
Second Semester**  
*11-12<sup>th</sup> Grade*

**Articulates with DMACC course, Fashion Analysis & Design (MKTG231)**

Design Strategies is an opportunity for students interested in a career in fashion design. You will explore careers in fashion—especially designer, buyer and visual display. Who are they? What do they do and how do they get their work into stores? What influences fashion trends? How do designers use color, texture, line and shape to create designs? Projects will give you hands-on experience in the above areas.

**Textiles and Housing Design –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Family and Consumer Science  
Second Semester**  
*10-12<sup>th</sup> Grade*

Basic elements and principles of design will be explored through interior design, furnishings, and housing. Use interior design software to create a variety of rooms from windows and doors to floorcovering and walls to furniture selection and arrangement.

**HOSPITALITY & TOURISM CLUSTER: RESTAURANT, FOOD & BEVERAGES PATHWAY**

**Culinary Arts I –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Family and Consumer Science  
Semester Long**  
*9-12<sup>th</sup> Grade*

Culinary 1 is the foundation course upon which you will build your culinary skills. This course is designed to provide you with the opportunity to take specific principles and preparation techniques taught and apply them in the hands-on culinary environment. Culinary Arts emphasizes different methods, skills and equipment used in food preparation. Units include safety and sanitation, starch and breads cookery, cutting and knife skills and the use of fats within cooking. Students will also apply standard product criteria for evaluating product quality and have a better understanding of employability skills.

**Culinary Arts II –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Culinary Arts I  
Semester Long**  
*10-12<sup>th</sup> Grade*

In this Part Two of an introductory course in Culinary Arts, students continue to advance their skills within safe and sanitary use of equipment, food preparation skills, and knowledge of cooking terms learned in Culinary 1. Units taught include cutting and knife skills, salads, pastries and fillings, herbs and spices, and meat and poultry cookery. Students will continue to apply standard product criteria for evaluating product quality and use of employability skills within a work environment.

**Culinary Arts III –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Culinary Arts I & II Semester Long**  
*11-12<sup>th</sup> Grade*

Culinary 3 will prepare you for careers in the food and hospitality industry by advancing your skills to a new level. This course is strictly aligned with DMACC Iowa Culinary Institute competencies. Throughout this course, students will individually demonstrate proficiency within safety and sanitation, knife techniques, correctly plating food, starch and sauce cookery, bread products, and protein cookery. Oral and written critiques of each product will be expected. Students at this level are expected to demonstrate proficiency within preparation skills, lab organization, and employability skills.

**HUMAN SERVICES CAREER CLUSTER: EARLY CHILDHOOD DEVELOPMENT SERVICES PATHWAY**

**Adult Living –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**None First Semester**  
*11-12<sup>th</sup> Grade*

Prepare for self-sufficiency in career and life-management, personal and professional relationships, crises, and marriage. Develop decision making, communication, and problem solving skills to balance career demands with individual and family needs.

**Exploring Childhood –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Family & Consumer Science Foundations & Careers Semester Long**  
*10-12<sup>th</sup> Grade*

Gain practical experience in guiding young children as you create and deliver age-appropriate activities at local preschool and daycare settings. Learn to direct behaviors, observe and motivate children. A basic study of developmental stages of preschool age children and the provision of a healthy and safe environment for children is the focus of classroom work. Practicum at a local childcare center is included.

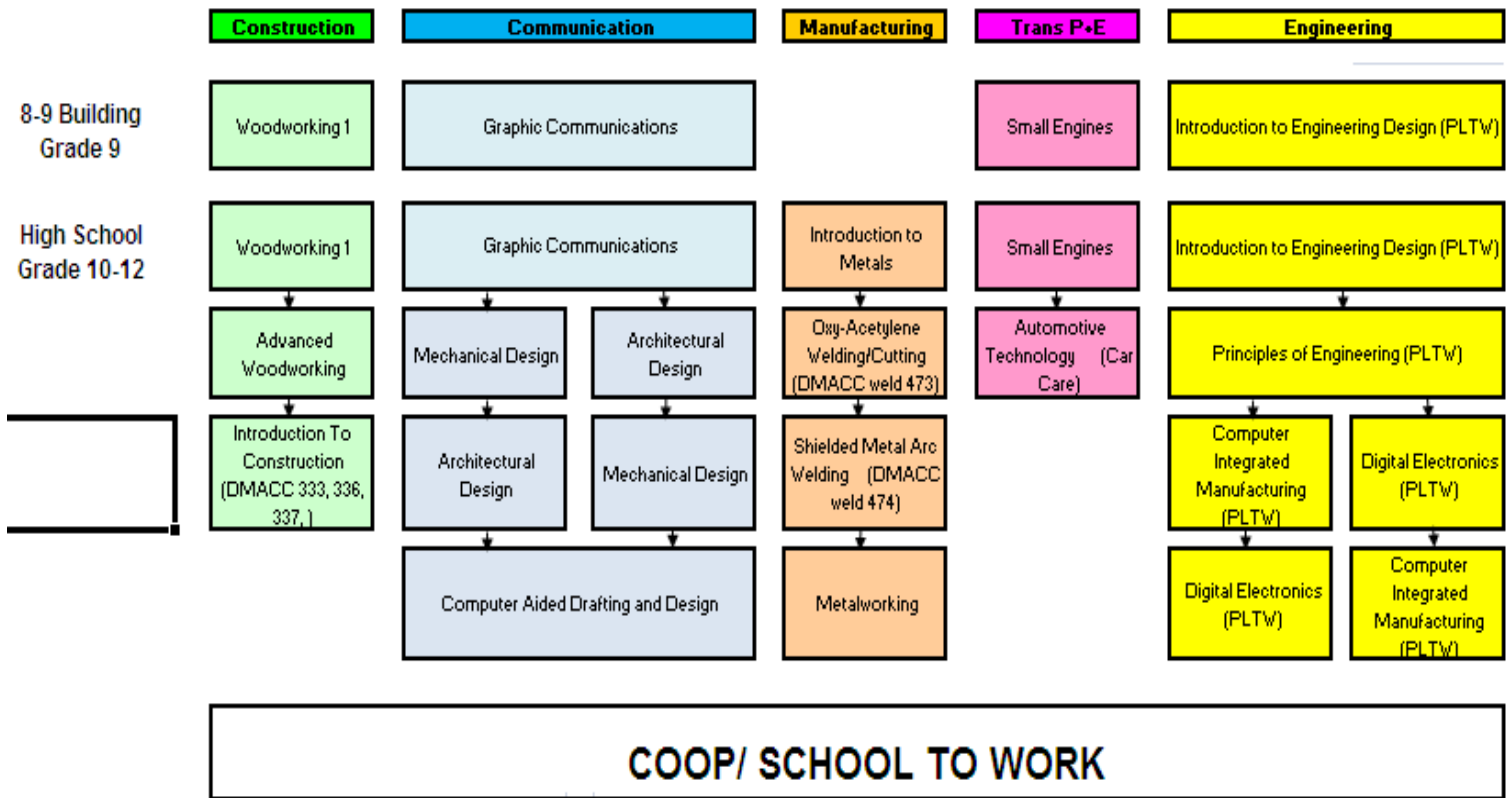
**Exploring Parenting –0.5 credit (half year)**

**Prerequisites Offered**  
*Elective Course*

**Family & Consumer Science Semester Long**  
*10-12<sup>th</sup> Grade*

This course focuses on the study of human development from conception to three years old. Examine the decision to parent, pregnancy, healthy parent-child relationships, safe and nurturing environments, and age appropriate development in children. The role of parents, family, and caregivers in meeting the child’s physical, intellectual, and social-emotional needs are the focus of study. Students will be required to take “Baby Think It Over” for several nights.

## Johnston Industrial Technology Course Sequencing



### Advanced Woodworking –0.5 credit (half year)

**Prerequisites Offered**  
*Elective Course*

**Woodworking I with at least a "C" Final Grade**  
**Semester Long**  
*10-12<sup>th</sup> Grade*

This course is designed to be an extension of Carpentry I. Major emphasis areas are the same although the student will be exposed to a more in-depth study of the material. A project with a door or drawer, or similar level of difficulty as approved by the instructor will be constructed.

### Architectural Design –0.5 credit (half year)

**Prerequisites Offered**  
*Elective Course*

**Graphic Communication with at least a "C" Final Grade**  
**Semester Long**  
*10-12<sup>th</sup> Grade*

This course utilizes one or more of the CAD programs to generate a set of residential house plans. Units include careers, planning, elevations, floor plans and site plans. Model construction is an optional unit. This class is recommended for future engineers and architects.

**Automotive Technology (Car Care) –0.5 credit (half year)**

**Prerequisites  
Offered**  
*Elective Course*

**Power Mechanics/Small Engines  
Semester Long**  
*10-12<sup>th</sup> Grade*

Students will learn the essentials of purchasing, owning, maintaining, and selecting professional service for an automobile. Students will also learn the operational systems, general and preventative maintenance, light service, and general troubleshooting. The student will explore careers in the transportation industry and have hands-on opportunities to service their own vehicle in class.

**Computer Drafting & Design –0.5 credit (half year)**

**Prerequisites  
Offered**  
*Elective Course*

**Must have taken all levels of Drafting  
Semester Long**  
*10-12<sup>th</sup> Grade*

This course utilizes Autocad CAD software for student chosen projects in architecture, mechanical, landscape or commercial drafting. In addition, the student may generate animations using current software. Computer Numeric Control (CNC) will be introduced. The student will work with the instructor to set individual goals and outcomes. This class is recommended for future engineers and architects.

**Construction Technology –1.0 credit (year course)**

**Prerequisites  
Offered**  
*Elective Course*

**Woodworking I recommended  
Semester Long**  
*11-12<sup>th</sup> Grade*

**College Credit-7 hrs. of DMACC credit (CON 333, 336, 337)**

This course covers areas related to the construction industry. Units on carpentry (framing), brick and block masonry, concrete masonry, house wiring, plumbing, blueprint reading, bidding and estimating, and surveying are covered along with extensive career information. This class is recommended future engineers and architects.

**Graphic Communication (previously General Drafting) –0.5 credit (half year)**

**Prerequisites  
Offered**  
*Elective Course*

**None  
Semester Long**  
*9-12<sup>th</sup> Grade*

This course includes the areas of conventional drafting and computer design, desktop publishing, scanner and digital camera operation, computer graphics, and career information. Students will learn how to use software programs such as CADD, Adobe Illustrator, Power Point, and Excel. Projects will include drafting mechanical parts, presentations, business card design, logos, and basic charts and graphs.

**Introduction to Metals –0.5 credit (half year)**

**Prerequisites  
Offered**  
*Elective Course*

**None  
Semester Long**  
*10-12<sup>th</sup> Grade*

This course will consist of the study of metal, its properties and uses. The student is introduced to the various metal forming processes. Specific areas of study include sheet metal layout and fabrication, casting aluminum in the foundry, shaping metal using the gas forge, heat-treating, and basic welding procedures.

**Mechanical Design** –0.5 credit (half year)

**Prerequisites**  
**Offered**  
*Elective Course*

**Graphic Communication with a C or higher**  
**Semester Long**  
*10-12<sup>th</sup> Grade*

This course covers computer drafting and design in greater depth. Areas covered include: orthographic projection, pictorial drawings, auxiliary drawings, section views, working drawings, pattern making, and career opportunities. This class is recommended for future engineers and architects.

**Metalworking** –0.5 credit (half year)

**Prerequisites**  
**Offered**  
*Elective Course*

**Introduction to Metals AND either Oxy-Acetylene Welding OR Shielded Metal Arc Welding**  
**Semester Long**  
*11-12<sup>th</sup> Grade*

This is a project-oriented class. Through one or more projects involving metals, the student will develop, plan, layout, and measure a personal project. Students will be required to create, modify, repair, or fabricate a final project. All projects are subject to instructor approval.

**Oxy-acetylene Welding/Cutting** –0.5 credit (half year)

**Prerequisites**  
**Offered**  
*Elective Course*

**Introduction to Metals**  
**Semester Long**  
*10-12<sup>th</sup> Grade*

**DMACC Credit: WEL 120**

Skills will be developed in oxy-acetylene gas welding/cutting (OAW/OAC) and repair. Through selected projects the students will develop safe working habits and skills in the above area. Safety in the lab areas is of paramount importance. Students can earn 2 DMACC credits.

**Shielded Metal Arc Welding** –0.5 credit (half year)

**Prerequisites**  
**Offered**  
*Elective Course*

**Introduction to Metals**  
**Semester Long**  
*10-12<sup>th</sup> Grade*

**DMACC Credit: WEL 150**

Skills will be developed in welding beads and buildup surfacing in the flat position. Through selected projects the students will develop safe working habits and skills in the above areas. Safety in the lab areas is of paramount importance. Students can earn 2 DMACC credits.

**Small Engines** –0.5 credit (half year)

**Prerequisites**  
**Offered**  
*Elective Course*

**None**  
**Semester Long**  
*9-12<sup>th</sup> Grade*

This course will explore careers in the small engine industry, and introduce the students to the various mechanical systems and components in 2-stroke and 4-stroke engines. The student will learn how to

diagnose, disassemble, inspect, measure, and re-assemble a 4-stroke engine. Students will work on their own engines.

### Woodworking I –0.5 credit (half year)

**Prerequisites**

**Offered**

*Elective Course*

**None**

**Semester Long**

*9-12<sup>th</sup> Grade*

A course offered to develop knowledge of fundamental skills, and terms utilized within the field of woodworking. A product will be selected, plan of procedures developed, working plans drawn up, and a bill of materials filled out. Shop safety, layout procedures, woodworking joint construction, gluing and clamping procedure, and finishing processes are covered. There are two small projects required during the semester and each student can select a project of their own to construct.

**PROJECT LEAD THE WAY: Project Lead the Way (PLTW) is a national program forming partnerships among Public Schools, Higher Education Institutions and the Private Sector to increase the quantity and quality of engineers and engineering technologists graduating from our education system. PLTW courses taught at Johnston are as listed below**

### Introduction to Engineering Design –1.0 credit (year course)

**Prerequisites**

**Offered**

*Elective Course*

**Completion of/or currently enrolled in Algebra 1 recommended**

**Yearlong**

*9-12<sup>th</sup> Grade*

**College Credit: Students who meet guidelines established by PLTW will have the opportunity for 3 college credits at various universities around the United States**

**\*\*Students are encouraged to check with college/universities Registrar Office to determine if these credits will transfer to their academic program**

Introduction to Engineering Design is a course that teaches problem solving skills using a design development process. Model solutions are created, analyzed, and communicated using solid modeling computer design software. Students will be challenged with practical applications of math, science, and Industrial Technology. Students should have a strong math background and show an interest in math, science, and technology. Visit [www.pltw.org](http://www.pltw.org) for further information

### Computer Integrated Manufacturing –1.0 credit (year course)

**Prerequisites**

**Offered**

*Elective Course*

**Introduction to Engineering Design and Principles of Engineering**

**Yearlong**

*11-12<sup>th</sup> Grade*

**College Credit: Students who meet guidelines established by PLTW will have the opportunity for 3 college credits at various universities around the United States**

**\*\*Students are encouraged to check with college/universities Registrar Office to determine if these credits will transfer to their academic program**

A course that applies principles of robotics and automation Computer Aided Design (CAD) design. This course builds on computer solid modeling skills developed in Introduction to Engineering Design, and Design and Drawing for Production. Students use Computer Numerical Control (CNC) equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing, and design analysis are included. Computer Integrated Manufacturing is abbreviated CIM. A computer automated system in which individual engineering, production, marketing, and support functions of a manufacturing enterprise are organized; functional areas such as design, analysis, planning, purchasing, cost accounting, inventory control, and distribution are linked through the computer with factory floor functions such as materials handling and management, providing direct control and monitoring of all process operations. Visit [www.pltw.org](http://www.pltw.org) for further information.

### Digital Electronics –1.0 credit (year course)

<b>Prerequisites</b>	<b>Introduction to Engineering and Principles of Engineering (Computer Integrated Manufacturing is <u>not</u> a prerequisite)</b>
<b>Offered</b>	<b>Yearlong</b>
<i>Elective Course</i>	<i>11-12<sup>th</sup> Grade</i>

**College Credit: Students who meet guidelines established by PLTW will have the opportunity for 3 college credits at various universities around the United States**

**\*\*Students are encouraged to check with college/universities Registrar Office to determine if these credits will transfer to their academic program**

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. The major focus of the course is to expose students to the design process of logic design, teamwork, communication methods, engineering standards, and technical documentation. No previous knowledge in electronics is needed.

### Principles of Engineering –1.0 credit (year course)

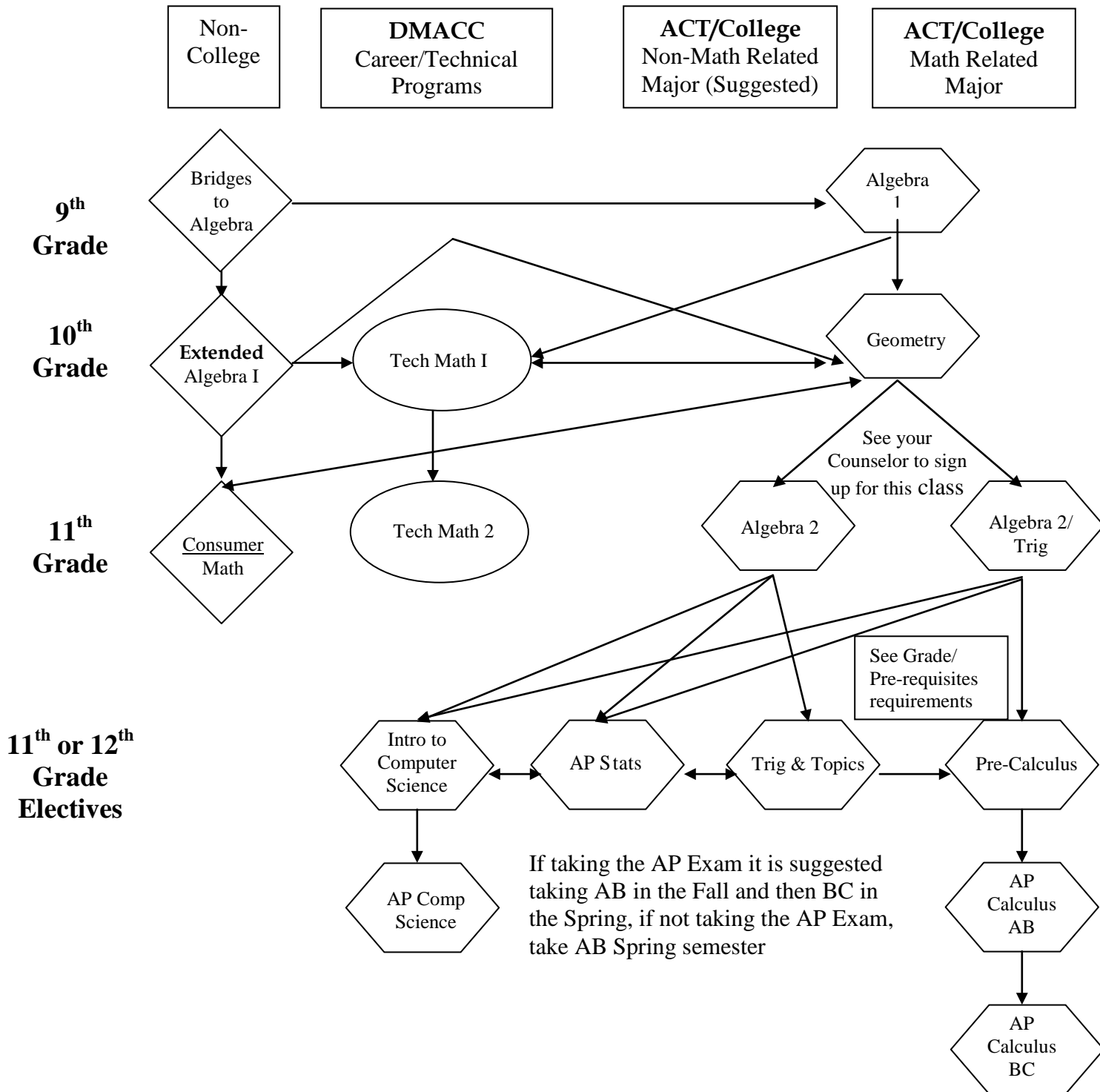
<b>Prerequisites</b>	<b>Introduction to Engineering Design, completion of Algebra 2 or Geometry recommended</b>
<b>Offered</b>	<b>Yearlong</b>
<i>Elective Course</i>	<i>10-12<sup>th</sup> Grade</i>

**College Credit: Students who meet guidelines established by PLTW will have the opportunity for 3 college credits at various universities around the United States**

**\*\*Students are encouraged to check with college/universities Registrar Office to determine if these credits will transfer to their academic program**

A course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. Students should have an interest in math, science, and technology. Visit [www.pltw.org](http://www.pltw.org) for further information.

All students will be required to take three credits of math to graduate from JHS. Although this is the requirement for High School graduation, this may or may not prepare a student for college. Each student is encouraged to investigate the college of their choice to determine the mathematics requirements for acceptance. **Students and parents are encouraged to review the Course Selection Handbook for the required pre-requisites and recommendations.**



The use of graphing calculators is recommended or required in all math classes. The graphing calculators are allowed for taking the PSAT, SAT and the ACT tests. These tests are now written with the calculator in mind and the questions include graphical analysis which can only be done with a graphing calculator. Graphing calculators are available for use in the classroom or for check out in the Library Media Center. The TI-83, TI-83+, TI-84 or TI-84+ are recommended.

**Algebra 1** –1.0 credit (year course)

<b>Prerequisites Offered</b>	<b>None</b>
<b>Recommended Materials</b> <i>Required Course</i>	<b>Year Course 9<sup>th</sup> Grade Only</b> <b>Extended Period Semester Course Offered Both Semesters 10-12<sup>th</sup> grade</b> <b>Graphing Calculator (TI-83, TI-83+, TI-84, TI-84+, etc)</b> <i>9-12th Grade</i>

Concepts and skills are introduced algebraically, graphically, numerically, and verbally, often in the same lesson to help students make connections and to address diverse learning styles. Topics included in this course are: solving and graphing linear equations and inequalities, systems of equations and inequalities, properties of exponents, polynomials, and quadratic equations and functions.

**Algebra 2** –1.0 credit (year course)

<b>Prerequisites Offered</b>	<b>Geometry and Algebra 1</b>
<b>Recommended Materials</b> <i>Elective</i>	<b>Extended Period Course Offered Both Semesters and Year Long</b> <b>The use of a graphing calculator is required</b> <i>Recommended for College Admission</i>

The current **Algebra 2** course is offered on the block, for 1 semester, and as a year-long course, both earning 1 credit. This option provides most of the material that could be seen on the ACT or SAT. Advanced Algebra, Functions, Linear and Quadratic Equations, Modeling, Matrices, Polynomial, Radical, Exponential and Logarithmic Functions, and Rational Equations are the covered topics. **This course is designed as the third year of math recommended by many colleges and universities.**

**NOTE:** This course moves at a slower pace. If a student takes this class, they would also need Trigonometry/Topics class in order to take Pre-Calculus.

**Algebra 2/Trigonometry** –1.0 credit (block course)

<b>Prerequisites</b>	<b>Student(s) MUST have an A or B in both Algebra 1 and Geometry AND a teacher recommendation</b>
<b>Offered</b>	<b>Extended Period Course Offered Both Semesters</b>
<b>Recommended Materials</b> <i>Elective</i>	<b>The use of a graphing calculator is required</b> <i>Recommended for College Admission</i>

Algebra 2/Trigonometry is offered on the block, for one semester, earning 1 credit and includes a **brief** review of Linear Equations and Basic Algebra and proceeds to topics of Functions, Linear and Quadratic Equations, Modeling, Polynomial, Radical, Exponential, and Logarithmic Functions, Rational Equations, Conic Sections, Periodic Functions and Trigonometry. The course is designed for students who exhibit very high aptitude in mathematical thinking and maturity. The pacing of this course is very rigorous, covering 1-2 chapters of material per week.

**AP Calculus AB –1.0 credit (block course)**

**Prerequisites**

**Offered**

**Required Materials**

*Elective*

**Pre-Calculus (B Grade or Better)**

**Extended Period Course Offered First Semester**

**A graphing calculator**

*11-12th Grade*

**DMACC Credit: MAT 211**

Advanced Placement Calculus I is a course designed to fulfill the requirements of a college first semester Calculus course. Among topics that are covered; polynomials, special functions, transcendental functions, limits, continuity, derivatives, and definite integrals. The course is intended for advanced high school mathematics students who are willing to devote the energy necessary to complete a course more rigorous and demanding than other high school mathematics courses.

**\*DMACC credit of 5 hours is offered for this course**

The course will prepare students to take AB Advanced Placement Examination in Calculus. Although not required, it is expected that students will participate in that exam.

**AP Calculus AB –1.0 credit (block course)**

**Prerequisites**

**Offered**

**Required Materials**

*Elective*

**AP Calculus AB (B Grade or Better)**

**Extended Period Course Offered Second Semester**

**A graphing calculator**

*11-12th Grade*

Advanced Placement Calculus II is a course designed to fulfill the requirements of a college second semester calculus course. Among topics that are covered are: indefinite integrals, hyperbolic functions, series and sequences, polynomial approximations, and Taylor series. The course is intended for advanced high school mathematics students who are willing to devote the energy necessary to complete a course which builds upon the principles of AP Calculus I.

This course will prepare students for taking the BC Advanced Placement Examination in Calculus. Although not required, it is expected that students will participate in that exam.

**AP Computer Science A –1.0 credit (block course)**

**Prerequisites**

**Offered**

**Required Materials**

*Elective*

**Computer Science, Algebra II or equivalent (see instructor)**

**Extended Period Course Offered Second Semester**

**Graphing Calculator (TI-83, TI-84, TI-84+, etc)**

*10-12th Grade*

Advanced Placement Computer Science is comparable to introductory courses for computer science majors offered at colleges and universities. This course emphasizes programming methodology, and procedural abstraction. It also includes the study of algorithms, data structures, and data abstraction. The course is intended for students that desire advanced programming education. Although not required, it is expected that students will participate in the Advanced Placement Computer Science Test in May.

**This course does not meet the recommended requirements for the NCAA clearinghouse.**

**AP Statistics –1.0 credit (block course)**

**Prerequisites**

**Offered**

**Required Materials**

*Elective*

**DMACC Credit: MAT 157**

**Algebra II ( Recommended B Grade or Better)**

**Extended Period Course Offered Both Semesters**

**Graphing Calculator**

*11-12th Grade*

The AP Statistics course is an excellent option for any secondary school student who possesses sufficient mathematical maturity and quantitative reasoning ability, and who has a desire to investigate statistical analysis of data. **This course is worth four credits toward DMACC College Credit and one credit for Math requirements of JHS graduation. This course does meet the recommended requirements for 4-year college admission.** The purpose of the AP course in Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. Exploring Data: Observing patterns and departures from patterns.
2. Planning a Study: Deciding what and how to measure.
3. Anticipating Patterns: Producing models using probability theory and simulation.
4. Statistical Inference: Confirming models.

Students who participate in the AP Statistics course are expected, but not required, to take the AP Statistics exam.

**Bridges to Algebra**–1.0 credit (year course)

**Prerequisites Offered**

**Required Materials**  
*Math Credit*

**Recommendation by Staff**

**Extended Period Course Offered Both Semesters**  
**Graphing Calculator (TI-83, TI-84, TI-84+, etc)**  
*9th Grade*

Concepts and skills developed during this course which would enable the student to be prepared for algebra. Topics included in this course develop skills with operations on real number system, ratios, proportions, percents, simplifying expressions, solving linear equations, inequalities, area, and volume. This course will be supported through independent on-line teaching.

**Computer Science**–1.0 credit (block course)

**Prerequisites**

**Offered**  
*Elective*

**Geometry (Recommended C grade or better for Algebra 1 and Geometry)**

**Extended Period Course Offered Second Semester**  
*10-12th Grade*

This course is for students beginning in Computer Science. Several major aspects of computing are presented, including:

1. Programming Basics
2. Object-Oriented Programming
3. Software Development Life Cycle
4. Graphical User Interfaces and Event Driven Programming

This course is a prerequisite to Advanced Placement Computer Science. This course will benefit anyone pursuing a career in computers, business, engineering, mathematics, science, and any other related fields.

**This course does not meet the recommended requirements for the NCAA clearinghouse or four-year college admission.**

**Consumer Math**–1.0 credit (block course)

**Prerequisites Offered**  
*Elective*

**None**

**Extended Period Semester Course Offered Second Semester**  
*10-12th Grade (Open only to students who will not have completed Algebra II)*

The emphasis of this course is on the computation skills needed now and throughout life for consumers and job holders. In addition to review of basic math skills, some of the topics covered are income, personal banking, consumer credit, automobile buying and expenses, travel, housing, tax, and insurance.

**Extended Algebra**–1.0 credit (block course)

<b>Prerequisites Offered</b>	<b>None</b>
<b>Recommended Materials</b> <i>Elective</i>	<b>Extended Period Course 1<sup>st</sup> Semester, Single Period for 2<sup>nd</sup> Semester</b> <b>Graphing Calculator (TI-83, TI-83+, TI-84, TI-84+, etc)</b> <i>10-12<sup>th</sup> Grade</i>

This will be an introductory course for those students who wish to have a strong foundation in the beginning level mathematics. It will contain the same curriculum as Algebra I, but in addition, it will incorporate more hands-on activities and projects as well as fundamental mathematics review. This course is for those students who wish to go beyond the Bridges to Algebra course and should not be a replacement of Algebra I for all students. It is for those students who may be too strong for Bridges to Algebra, but not yet prepared for the rigors of Algebra I. It will also serve those students who have taken Bridges to Algebra but still struggle with their mathematics and need this as an intermediate step before Geometry.

**Geometry**–1.0 credit (block course)

<b>Prerequisites Offered</b>	<b>Algebra I</b> <b>Year Course 9<sup>th</sup> Grade Only</b> <b>Extended Period Semester Course Offered Both Semesters- 10<sup>th</sup>-12<sup>th</sup> grade</b>
<b>Recommended Materials</b> <i>Elective</i>	<b>Graphing Calculator (TI-83, TI-83+, TI-84, TI-84+, etc)</b> <i>Recommended for College Admission</i>

The concept of proof is introduced in a variety of formats including two column, paragraph, and indirect forms. Students learn to value the need to think logically and present ideas in a logical order. Traditional geometry concepts and logical reasoning are emphasized throughout while measurement and applications are integrated to motivate students via real-world connections.

Algebra is reviewed and integrated throughout the course. Skills are reviewed at point-of-use, ensuring students maintain these skills. Algebra integration within coordinate geometry topics, plus probability and statistics connections, are addressed in this course.

**Pre-Calculus**–1.0 credit (block course)

<b>Prerequisites Offered</b>	<b>Trigonometry and Topics OR Algebra 2/Trig (Required B Grade or Better)</b>
<b>Required Materials</b> <i>Elective</i>	<b>Extended Period Semester Course Offered Both Semesters</b> <b>Graphing Calculator</b> <i>10-12<sup>th</sup> Grade</i>

This course continues the development of critical thinking and problem-solving skills. The concepts covered include advanced work with trigonometric functions and formulas, conic sections, probability, exponential and logarithmic functions, modeling data, and an introduction to derivatives and integrals. This course is designed to prepare students for college mathematics and /or technical fields of training.

**Tech Math I–1.0 credit (block course)**

<b>Prerequisites</b>	<b>Algebra 1 (C grade or better required to earn DMACC Career/Technical Program credit)</b>
<b>Offered</b>	<b>Extended Period Course Offered First Semester only</b>
<b>Required Materials</b>	<b>Scientific Calculator or Graphing Calculator</b>
<i>Elective</i>	<i>10-12<sup>th</sup> Grade</i>

**DMACC: MAT 771 (3 credits toward Career/Tech Programs)**

NOTE: This course meets the requirements for any of the Career/Technical programs at any of the State Community Colleges. **It is worth three credits towards the Career/Technical programs AND one credit toward Math requirements for JHS graduation. It should be noted that this class DOES NOT meet the recommended requirements for the NCAA clearinghouse or four-year college admission.** This course MAY/MAY NOT be given three credits of electives at a 4-year college and should not be confused to be math credit. This needs to be verified by the college of your choice.

The content of the course includes elementary mathematical skills for technicians. Topics covered include fundamental operations with whole numbers, fractions, decimals, and signed numbers, percents, geometric figures and basic constructions, area and volume formulas, English/Metric systems, measurements, and the interpretations of graphs and charts. This course is a pre-requisite to any of the Vocational Programs at DMACC.

**Tech Math II–1.0 credit (block course)**

<b>Prerequisites</b>	<b>Tech Math 1 (C grade or better required to earn DMACC credit)</b>
<b>Offered</b>	<b>Extended Period Course Offered Second Semester only</b>
<b>Required Materials</b>	<b>Scientific Calculator or Graphing Calculator</b>
<i>Elective</i>	<i>11-12<sup>th</sup> Grade</i>

**DMACC: MAT 772 (3 credits toward Career/Tech Programs)**

NOTE: This course meets the requirements for any of the Career/Technical programs at any of the State Community Colleges. **It is worth three credits towards the Career/Technical programs AND one credit toward Math requirements for JHS graduation. It should be noted that this class DOES NOT meet the recommended requirements for the NCAA clearinghouse or four-year college admission.** This course MAY/MAY NOT be given three credits of electives at a 4-year college and should not be confused to be math credit.

This is 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. Applications to various trades will be made. This course is the second in the math requirements for any of the Career/Technical Programs at DMACC.

**Trigonometry and Topics–1.0 credit (block course)**

<b>Prerequisites</b>	<b>Recommended C grade or better in Algebra 2</b>
<b>Offered</b>	<b>Extended Period Course Offered Both Semesters</b>
<b>Required Materials</b>	<b>Scientific Calculator or Graphing Calculator</b>
<i>Elective</i>	<i>10-12<sup>th</sup> Grade</i>

This course completes the Algebra 2 curriculum in a block period class, for one semester and earns 1 credit. This course would include Rational Functions, Conic Sections, Sequences and Series, Periodic Functions and Trigonometry. These additional topics would prepare a student for Pre-Calculus and other advanced topics in mathematics.

## INSTRUMENTAL MUSIC

### 9<sup>th</sup> Grade Band –0.5 credit (year course)

**Prerequisites**

**Successful completion of 8<sup>th</sup> grade band or with director approval**

**Offered**  
*Elective*

**Semester Long**  
*9<sup>th</sup> Grade*

Ninth grade band is a performance-based class that focuses on the in-depth study and preparation of a variety of styles of high quality band literature. This band literature is used as a vehicle to explore the concepts of rhythmic integrity, tone, balance, blend, intonation, articulation, and technique. The ninth grade band will perform at two concerts and several festivals throughout the year. In addition to the full ensemble component of ninth grade band, the dual curriculum adopted by the JCSD requires each student to prepare for and attend a weekly small group lesson on his/her instrument. In this smaller setting, students can continue to develop and expand their skills and address idiomatic issues for their specific instrument.

Students (except new transfers) may not take band second semester if they have not successfully completed the first semester.

Note: The following music activities are not courses. No credit is given for these.

### High School Band –0.5 credit (year course)

**Prerequisites**

**Successful completion of 9<sup>th</sup> grade band or with director approval**

**Offered**  
*Elective*

**Semester Long**  
*10-11<sup>th</sup> Grade*

The JHS band program provides a laboratory for the study of music in various forms and styles for qualified instrumentalists. Instrumental music commences with marching band in the fall. Comprised of all members of the band program, the marching band season starts with pre-season sectionals and an annual August band camp (held in the first week of August). The marching band meets daily before school, and rehearses through first period. Regular and punctual attendance is required for maintaining membership in this ensemble; similarly, participation includes several Saturday commitments. The marching band represents the JHS Dragons at all home football games and maintains an active and diverse fall marching competition schedule.

The core of the program--concert band--begins at the conclusion of marching season. The wind symphony (select ensemble) and the concert band use musical performances as a vehicle to address tone, balance, blend, technique, intonation, and rhythm. In addition to three annual concerts, the concert bands participate in in-state and out-of-state music festivals (including IHSMA Large Group Contest in May).

**Students (except new transfers) may not take band second semester if they have not successfully completed the first semester.**

**ALL STUDENTS WISHING TO PARTICIPATE IN CHOIR AT JHS (GRADES 10-12) SHOULD LIST MIXED CHORUS ON THEIR SCHEDULES**

**VOCAL MUSIC**

**Chamber Choir -9<sup>th</sup> grade**–0.5 credit (half year)

**Prerequisites Offered**  
*Elective*

**Must be in Freshman Chorus Semester Long**  
*9<sup>th</sup> Grade*

9<sup>th</sup> grade Chamber Choir is an auditioned group of 9<sup>th</sup> grade students. This choir provides students the opportunity to sing more difficult accompanied and a cappella music. This select ensemble will explore and perform a variety of music in addition to gaining a greater understanding of the advanced vocal techniques for the mixed ensemble. Chamber Choir will perform in three concert events during the year and will perform at the Madrigal Dinner and other community events. Auditions for this class will occur during the spring semester prior to 9<sup>th</sup> grade.

**Concert Choir** –0.5 credit (year course)

**Prerequisites Offered**  
*Elective*

**Audition Yearlong**  
*10-12<sup>th</sup> Grade (Selected by Audition - Meets Every Day)*

The Concert Choir is a select mixed choir. It offers the serious musician the challenge of performing difficult literature from various musical time periods. Vocal technique and sight-reading skills are emphasized in class. Concert Choir performs fall, winter, and spring concerts. It presents an Old English Madrigal Feast each December. Concert Choir also performs at State Large Group Contest in May.

Three sections of Concert Choir are offered:

Women's Concert Choir  
Concert Choir  
Chamber Choir

**Freshman Chorus** –0.125 credit (year course)

**Prerequisites Offered**  
*Elective*

**None Yearlong**  
*9<sup>th</sup> Grade (Meets Alternate Days)*

Freshman Choir is open to all 9<sup>th</sup> grade students who would enjoy the challenge of working together to make music. Students will sing in a mixed choir and men's and women's choir setting. Students will learn vocal fundamentals concentrating on skills such as correct breathing techniques, vowel modification, diction and communication and performance techniques. Solfege syllables and hand signs will be used to enhance sight reading skills and improve part-singing. Students will participate in three concerts throughout the year, performing a varied repertoire of songs.

**Innovation** –0.125 credit (year course)

**Prerequisites**  
**Offered**  
*Elective*

**Membership in Concert Choir, or Chamber Choir required**  
**Yearlong**  
*10-12<sup>th</sup> Grade (Selected by Audition - Meets Alternate Days)*

Innovation is one of two show choirs at JHS. It combines elements of singing, dancing, and performing in a twenty-minute show. Innovation competes in various show choir competitions in January, February, and March. It presents an end of year show in the spring. Innovation rehearses every other day and 3-5 hours per week outside of the school day.

**Mixed Chorus** –0.25 credit (year course)

**Prerequisites**  
**Offered**  
*Elective*

**None**  
**Yearlong**  
*10-12<sup>th</sup> Grade (Meets Alternate Days)*

Mixed Chorus is open to all students who enjoy singing and who can accept the challenge of working with a large team to make music. Auditions for voice placement may be required. Vocal technique and sight-reading skills are emphasized in class. Mixed Chorus presents a fall concert, a winter concert, and a spring concert. It rehearses every other day.

**Music Theory** –0.5 credit (half year)

**Prerequisites**  
**Offered**  
*Elective*

**Instructor Approval**  
**Semester Course Offered First Semester**  
*11-12<sup>th</sup> Grade*

Music theory is an elective course designed with the college bound musician in mind. Counterpoint, dictation, music history and composition will be explored in detail. This course is a must for any prospective music majors and/or minor. Music theory will be offered every day for one semester earning you one course credit. There is no prerequisite.

**Sound Advice** –no credit (year course)

**Prerequisites**  
**Offered**  
*Elective*

**Membership in Freshman Chorus required**  
**Yearlong**  
*9<sup>th</sup> Grade (Selected by Audition - Meets Every Day)*

**Seasonal Extracurricular Activity**

Sound Advice offers students the opportunity to be introduced to Vocal Jazz, Popular Music, and Broadway Show tunes. Special attention will be given to choreography and staging. Sound Advice will perform on home concerts, will compete in several competitions each year, and will perform at the Spring Show with the High School Show Choirs. Additional weekend and/or evening rehearsals will also be required. **NOTE: No credit is given for Sound Advice**

**Synergy** -0.125 credit (year course)**Prerequisites****Offered***Elective***Membership in Mixed Chorus, Women's Concert Choir, Concert Choir, or Chamber Choir required****Semester Course Offered First Semester***10<sup>th</sup>-12<sup>th</sup> Grade (Selected by Audition - Meets Alternate Days)*

Synergy is one of two show choirs at JHS. It combines elements of singing, dancing, and performing in a fifteen-minute show. Synergy competes in various show choir competitions in January, February, and March. It presents an end-of-year show in the spring. Synergy rehearses every other day and 2-3 hours per week outside of the school day.

**9<sup>th</sup> Grade Functional Fitness P.E.** –0.125 credit (semester course meeting every other day)

**Prerequisites Offered**  
*Required*

**None Semester Long**  
*9 Grade*

Units in the freshman curriculum will stress lifetime fitness with emphasis on muscular strength/endurance, cardiovascular endurance, speed, agility, and functional fitness. Activities will incorporate teamwork and sportsmanship.

**Physical Education Department  
Course Descriptions  
Grades 10-12**

The following is a list of Physical Education courses in which you may choose to enroll for the 2012-2013 school year.

Each "Track" is one semester long. When choosing a track you are selecting the course you would like to take for the semester. You may choose to enroll in a different track or remain in the same track for second semester.

**Health** –0.5 credit (half year)

**Prerequisites Offered**  
*Required*

**None Semester Long**  
*10th Grade (Health)*

The Health Triangle is made up of our family/social, mental/emotional and physical health. This is the basis of developing a balanced way to a healthy life. This course will discuss the critical issues to allow students to gain valuable knowledge needed to make informed health decisions. The course will cover the areas of personal health, nutrition & physical fitness, safety, social health, family life, substance abuse, disease, emotional health, sexually transmitted infections, HIV/AIDS, and human sexuality. CPR (CardioPulmonary Resuscitation) has been mandated by the state and is included in the curriculum. All students must take CPR and those who wish may be certified.

**Track 1: Individual/Personal Fitness** –0.125 credit (semester course meeting every other day)

**Prerequisites Offered**  
*Elective*

**None Semester Long**  
*10-12th Grade*

This track will provide you an opportunity to learn a variety of noncompetitive exercise methods and activities that will maintain and/or improve your fitness level. Course emphasis is on regular, safe exercise in an individual or small group setting, to promote healthy lifestyles.

Activities may include: pilates, yoga, physioballs, medicine balls and use of cardio-equipment etc.

**Track 2: Individual/Dual Recreation Activities** –0.125 credit (semester course meeting every other day)

**Prerequisites Offered**  
*Elective*

**None Semester Long**  
*10-12th Grade*

This track will provide you an opportunity to learn a variety of movement, fitness and sport activities. Emphasis will be placed on learning and enhancing technique and skills in selected activities in individual or small group settings.

Activities may include: tennis, archery, fencing, table tennis, badminton etc.

**Track 3: Team Games/Activities & Sports** –0.125 credit (semester course meeting every other day)

**Prerequisites Offered**  
*Elective*

**None Semester Long**  
*10-12th Grade*

This track will provide you an opportunity to learn a variety of movement, fitness and sport activities. Emphasis will be placed on learning and enhancing technique and skills in selected activities in a group or team setting.

Activities may include: flag football, volleyball, basketball, ultimate Frisbee, floor hockey, etc.

**Track 4: Strength & Conditioning for Athletic Power** –0.125 credit (semester course meeting every other day)

**Prerequisites Offered**  
*Elective*

**None Semester Long**  
*10-12th Grade*

This track will provide you an opportunity to learn how to improve core strength and power, increase lean body mass, increase speed and agility, train in the correct energy system, maintain strength and power gains during the season and decrease the chance for injuries.

Activities may include: weight training and speed & agility training

**Track 5: Cross Training for Lifelong Fitness** –0.125 credit (semester course meeting every other day)

**Prerequisites Offered**  
*Elective*

**None Semester Long**  
*10-12th Grade*

This track will provide you an opportunity to learn how to improve your overall level of physical fitness by learning to create and implement a personalized cross training workout. Activities focus on several methods of achieving and maintaining a healthy level of cardiovascular and muscular fitness. Emphasis will be on cardio-respiratory endurance and muscular fitness.

Activities may include: machine & free weight training and cardio training

**Track 7: P.E.O.P.E.L. PE –0.125 credit (semester course meeting every other day)**

**Prerequisites**  
**Offered**  
*Elective*

**Instructor Approval**  
**Semester Long**  
*10-12th Grade*

(Physical Education Opportunity Provided for Exceptional Learners)

As a peer coach you will be assisting special needs students in a physical education class. Emphasis in this course will be placed on assisting and aiding the special needs students during modified physical activities and games.

\*\*Instructor approval required for this course. Students interested in becoming a peer coach need to complete an application and submit to instructor for approval.

**SEMESTER LONG BLOCK COURSES**

**The following courses are only open to Juniors and Seniors and may only enroll in each course one time**

**Track 6: Outdoor Pursuits –0.25 credit (half year)**

**Prerequisites**  
**Offered**  
*Elective*

**Junior or Senior Status**  
**Second Semester**  
*11-12th Grade*

This track will provide you the opportunity to learn a variety of skills and activities in an outdoor setting. Emphasis will be placed on learning skills and techniques to responsibly and safely interact while in the outdoors.

Activities may include: hiking, orienteering, disc golf, fishing, outdoors cooking, cross country skiing, etc.

**Kinesiology of Strength & Conditioning Training –0.5 credit (meets every day)**

**Prerequisites**  
**Offered**  
*Elective*

**One semester of Track 4 PE required**  
**Biology and/or Anatomy & Physiology are suggested**  
**Semester Long**  
*11-12th Grade (Health)*

**(This can count as a semester of PE)**

This course will use a multidisciplinary approach to examine the scientific nature of strength and energy system production from a physiological, neurological, biomechanical, and bio-energetic perspective. The course also addresses the science behind various forms of training and program development.

**Advanced Life Science Animals**–0.5 credit (half year)

**Prerequisites**  
**Offered**  
*Elective*

**Passing grade in Biology**  
**Semester Long**  
*10-12th Grade*

Advanced Life Science Animals is an in-depth look at the major animal groups on our planet. The class will survey the diversity of animal life and learn about the structure of animal systems as well as the life cycles of these organisms. Students will have a chance to interact with and observe many of the animals being studied. This course is recommended for any student interested in the field of science or who are interested in animals. Those who have a desire to go into veterinary medicine, zoo keeping, animal caretaking or DNR are strongly encouraged to take this course. Students need a passing grade in Biology to enroll.

**Advanced Life Science Plants**–0.5 credit (half year)

**Prerequisites**  
**Offered**  
*Elective*

**Passing grade in Biology**  
**Semester Long**  
*10-12th Grade*

Advanced Life Science: Plants is an in-depth look at plant systems. Students will survey the diversity of plant life, learn about plant structures and life cycles, and discover the impact of plants on society. The course will also survey bacteria, protist, and fungal life forms. Students interested in the field of science or who have a desire to go into the DNR, landscaping, lawn care management, agriculture, or horticulture are encouraged to take this course. Students need a passing grade in Biology to take this course.

**Anatomy and Physiology**–1.0 credit (year course)

**Prerequisites**  
**Offered**  
*Elective*

**Biology (C or better strongly recommended)**  
**or Instructor's approval**  
**Yearlong**  
*11-12th Grade*

Anatomy and Physiology is a rigorous lecture-laboratory class studying the mammalian body with emphasis on structure and function, diseases and metabolic processes. Laboratory work is required for this course and includes, but is not limited to, dissections. This course is recommended for students interested in careers in health related fields or for students wanting a higher level of knowledge of the human body. This class may not replace Chemistry or Physics in the eyes of college admission reviews.

**AP Biology**–1.0 credit (year course)

**Prerequisites**  
**Offered**  
*Elective*

**Biology and General Chemistry (B or better strongly recommended) or Instructor's approval**  
**Yearlong**  
*11-12th Grade*

The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. The ongoing information explosion in biology makes these goals even more challenging. Primary emphasis in an Advanced Placement Biology course should be developing an understanding of concepts rather than memorizing terms and technical details. Essential to this conceptual understanding are the following: recognition of unifying themes that integrate the major topics of biology, application of biological knowledge, and think critically about environmental and social concerns. This is a dual enrollment course and DMACC credit can be earned by taking the course.

**AP Chemistry**–1.0 credit (year course)**Prerequisites****First year chemistry required with a recommended grade of A or B, or instructor approval****Offered**  
*Elective***Yearlong**  
*11-12th Grade*

The goals of this course are: 1) to introduce students to concepts required for solving problems in chemistry and for understanding chemical reactivity; 2) to develop analytical and critical thinking skills; and 3) to develop the students' abilities to think clearly and to express their ideas verbally and in writing with clarity and logic. AP Chemistry will challenge the students' ability to think analytically and reduce problems to identifiable and answerable questions; to understand problems expressed as experimental questions; to design and carry out experiments that answer questions; to manipulate data during an experiment; to make conclusions and evaluate the quality and validity of such conclusions; to propose further questions for study; and to communicate accurately and meaningfully about observations. Major topics, presented in considerable depth: atomic-molecular theory; structure of matter; chemical (reaction) kinetics; kinetic theory of gases; chemical equilibrium, thermodynamics; and electrochemistry.

**AP Physics**–1.0 credit (year course)**Prerequisites****Algebra 2/Trig or Trigonometry and Topics (B or better strongly recommended) Physical Science (C or better strongly recommended) or Instructor's approval****Offered**  
*Elective***Yearlong**  
*11-12th Grade*

AP Physics is a rigorous and challenging course. Students will work diligently inside and outside of class to develop critical thinking, problem solving, and data analysis skills. Students will investigate why things happen in the physical world through readings, demonstrations, video clips, and in-depth laboratory investigations. They will investigate Newtonian mechanics, fluid mechanics, thermal physics, electricity, magnetism, waves, optics, atomic physics, and nuclear physics. The end goal of the class is to prepare students for the AP Physics B (algebra based) exam. AP Physics is suggested for juniors or seniors with a background in math and science, are planning on studying math or science in college, and desire the challenge of an AP class. AP Physics is designed to be a 1<sup>st</sup> year physics course; it can be taken without taking Conceptual Physics.

**Astronomy – 9<sup>th</sup> grade**–0.5 credit (half year)**Prerequisites**  
**Offered**  
*Elective***None**  
**Semester Long**  
*9th Grade***This class does not fulfill a required credit for Science. This is an elective class.**

Students in this course will learn about the origins of the universe, how it is formed, and the objects it contains with an emphasis on our own solar system. A history of the science of discovering these topics-how we know what we know-will be studied. An evening field trip to an observatory will be taken.

**Biology**–1.0 credit (year course)

**Prerequisites Offered**  
*Elective*

**None Yearlong\***  
*Recommended for college admission*

Biological science curriculum stresses the development of critical reasoning. The central theme is where facts of biology are presented in unifying themes that help students understand the larger significance of details they are learning. Other selected themes point out ways of approaching science, important biological principles and technological changes in biology.

\*The administration will reserve the right to offer 1 section of Biology in a block format. This will only occur if the number of students with significant scheduling conflicts warrants.

**Biotechnology**–0.5 credit (half year)

**Prerequisites Offered**  
*Elective*

**Biology Semester Long**  
*11-12th Grade*

Biotechnology is defined as the use of living organisms to solve problems or make useful products. In this course, students will learn scientific principles of genetic engineering to conduct experiments, evaluate case studies, and conduct debates. Example themes that will be explored in Biotechnology will include; research lab skills, DNA fingerprinting, DNA transformation, PCR, bioethics, and bioinformatics. The students will gain valuable lab and research skills while exploring career options in the field of biotechnology.

**Conceptual Physics**–1.0 credit (year course)

**Prerequisites Offered**  
*Elective*

**Geometry (strongly recommended),  
Physical Science (C or better strongly recommended)  
Yearlong**  
*Recommended for college admission*

Conceptual Physics offers the student a general background in the basic concepts of physics. The course is designed to develop student's critical thinking skills. Emphasis will be placed on creating models that will help the student understand the basic concepts of physics and its applications in everyday life. The laboratory experiences will enable the student to develop critical thinking, reasoning, and problem solving skills. Topics studied will include: motion, forces, vector analysis, work, energy, wave phenomena, and electricity.

**Environmental Science**–0.5 credit (half year)

**Prerequisites Offered**  
*Elective*

**Biology Semester Long**  
*10-12th Grade*

Environmental Science is a semester long course that offers the student an understanding of environmental processes and human impacts on the environment. The course is designed to be inquiry based and stresses environmental issues through the integration of projects, case studies, labs, debates, discussions, and lectures. Example themes that will be explored in environmental science will include: sustainable development, pollution management, alternative energies, water, soil and air quality, climate change, and the impact humans have on their environment. To succeed in this class, students should be prepared to think critically and participate often.

**General Chemistry**–1.0 credit (year course)**Prerequisites****Algebra 1, Physical Science (C or better strongly recommended)****Offered****Yearlong\****Elective**Recommended for College Admission*

General Chemistry offers the student a general background in the basic concepts of chemistry. Emphasis is on learning the basic concepts of chemistry and in developing problem solving skills not only to use in chemistry but also in everyday life. Laboratory experiences will enable development of problem solving and critical thinking skills as well as the application of chemistry to everyday situations. Topics covered will include: measurement, problem solving, matter, energy, atomic structure, chemical names and formulas, chemical reactions and equations, gas laws, periodic chart, chemical bonding, solutions, acids/bases/salts, and reaction matter.

\*The administration will reserve the right to offer 1 section of Chemistry in a block format. This will only occur if the number of students with significant scheduling conflicts warrants.

**Investigations in Science**–1.0 credit (year course)**Prerequisites****Permission of Counselor****Offered****Yearlong***Elective**10-12<sup>th</sup> Grade*

Investigations in Science is a content course that explores applications of science concepts to everyday life. Examples of course content include the following topics: astronomy, basic chemistry, basic physics, geological cycles, environmental chemistry, recycling, energy sources and production, water and habitat conservation, and natural resource production and use. This class is offered as a full year highly lab-based course. Students who were not very successful in Physical Science would benefit from taking this course before Chemistry or Physics. This course has the same science credit value (1.0 credit) as Physical Science.

**Physical Science**–1.0 credit (year course)**Prerequisites****None****Offered****Yearlong***Required**9<sup>th</sup> Grade*

The Physical Science course consists of three basic science units, earth science, physics and chemistry. The earth science will cover earth system, geochemical cycle, origin and evolution of the earth system/universe. The physics will cover measurements, metric units, motion, forces, energy and simple machines. In the area of chemistry, measuring will be reviewed, properties of matter, structure of atoms, periodic table, compounds, bonding and chemical reactions. As in most science courses, an overriding principal of using the scientific method is emphasized.

**American Government**–1.0 credit (year course)

**Prerequisites**  
**Offered**  
*Required*

**None**  
**Yearlong**  
*12<sup>th</sup> Grade*

American Government is a course based upon the assumption that it is absolutely essential for all Americans to know and understand the nature of the American system of government. It emphasizes the fundamental characteristics of our democratic system of government on the national, state, and local levels. Much attention is also given to civil rights and responsibilities, our political parties and elections, foreign policy and the relationship between current events and our government. It is strongly recommended that American Government be taken in sequence (i.e. fall, spring).

**AP Psychology**–1.0 credit (year course)

**Prerequisites**  
**Offered**  
*Elective*

**Psychology is recommended. If a student has not taken the Psychology class, they will need instructor approval.**  
**Yearlong**  
*11-12<sup>th</sup> Grade*

The purpose of this course is for students to develop a working knowledge of the terms and concepts commonly taught in an introductory college course. We prepare as if every student is taking the AP exam in May. Tests are multiple choice and free response, like those on the AP exam. Students also do semester projects, unit assignments and presentations.

**AP U.S. History**–1.0 credit (year course)

**Prerequisites**  
**Offered**  
*Elective*

**None**  
**Yearlong**  
*11 Grade (Satisfies U.S. History Requirement)*

Advanced Placement U.S. History is a course designed to fulfill the requirements of the introductory college course in our country's history. Among the topics set for extensive examination are American colonial history, civil war, industrial development, World War I, the Depression, World War II, the Cold War, and an extensive look at contemporary America. This course is intended for advanced high school history students who are willing to devote the time and energy necessary to complete a course more rigorous and demanding than the required U.S. History course. This course will prepare students to take the Advanced Placement Examination in U.S. History, should they so elect.

**AP World History**–1.0 credit (year course)

**Prerequisites**  
**Offered**  
*Elective*

**None**  
**Yearlong**  
*10-12<sup>th</sup> Grade (Satisfies World History Requirement)*

Advanced Placement World History is a course designed to fulfill the requirements of the introductory college course in World History. Among the themes set for extensive examination are nationalism, industrialism, imperialism, colonialization, etc. The time period covered is from 8000 B.C. to Present (approx 10,000 yrs). Students will be asked to describe and analyze individual societies, juxtapose societies for comparison, examine change over time within one society, and analyze documents.

This course is intended for advanced high school students who are willing to devote the necessary time and energy to complete a World History class that is more demanding than the required World Studies. This course will prepare students to take the AP Examination in World History.

**Applied Economics**–0.5 credit (half year)

**Prerequisites  
Offered**  
*Elective*

**None  
First Semester**  
*10-12th Grade*

This college-prep course focuses on microeconomics and the connection to the consumer and the community. After an introductory section involving basic economic concepts, students will construct, analyze, and apply these theories to current economic conditions. Applied Economics requires the use of significant math and problem solving skills. Recommended for college bound students. Students may register for both Applied Economics and Principles of Economics. **This course does not meet the recommended requirements for the NCAA clearinghouse or four-year college admission.**

**Modern World Studies**–1.0 credit (year course)

**Prerequisites  
Offered**  
*Required*

**None  
First Semester**  
*10th Grade*

Modern World Studies explores the impact of historical events from the early 1300's to the present. First semester delves into the Renaissance and Reformation, the Age of Exploration, the Enlightenment, the French Revolution and other nationalist revolutions. Second semester continues with life in the Industrial Age, the effects of nationalism and imperialism, the growth of western democracies, WWI and WWII and concludes with a look at present world events. A humanities approach that includes a concern for culture, religion, philosophy, and the lifestyle of each period will be utilized so students will develop a clear perspective of the world they live in.

**Principles of Economics**–0.5 credit (half year)

**Prerequisites  
Offered**  
*Elective*

**None  
Second Semester**  
*11-12th Grade*

This college-prep course focuses on macroeconomics, the study of economic principles at the national and international level. In addition to working with the abstract concepts of supply, demand, trade balances and national interests, students will be involved in analysis of current events in political and business worlds. Recommended for college bound students. Students may register for both Applied Economics and Principles of Economics.

**Psychology**–0.5 credit (half year)

**Prerequisites  
Offered**  
*Elective*

**None  
Semester Long**  
*11-12th Grade*

We study current research and theories about human behavior. Some topics covered are sleep, dreams, brain parts and chemicals, personality, mental illness, intelligence, learning, altered mental states, development, and stress. Class time includes lecture, discussion, videos, group activities and experiments. Grading points are earned through application essays, unit tests, presentations and experiments.

**Social Issues**–0.5 credit (half year)

**Prerequisites Offered**  
*Elective*

**Sociology Both Semesters**  
*10-12th Grade*

This course focuses on social issues in American society. To understand social issues, the course will look at the social, political and economic conditions that perpetuate these issues. Such issues studied will be racial and ethnic tensions, poverty, crime, juvenile delinquency, gangs, substance abuse and other social ills. Many theories will be offered to explain the malfunction of a society along with student offered solutions to these issues.

**Sociology**–0.5 credit (half year)

**Prerequisites Offered**  
*Elective*

**None Semester Long**  
*10-12th Grade*

This is a course that provides an understanding of the social interaction of people in society. Students will examine how people behave in groups and how group interaction shapes both individual and group behaviors. Students will analyze rules, organizations, and value systems that enable people to live together. The case study approach will be used to delve into such topics as: socialization, culture, roles, norms, stereotypes, and sub-cultures.

**Topics in History**–0.5 credit (half year)

**Prerequisites Offered**  
*Required*

**None Semester Long**  
*9th Grade*

Topics in History provides students with a knowledge and understanding of history from Reconstruction through WWI in the US (1865-1920). Students will view this time period from an **American** perspective as well as a **World** perspective. Units of study include, Reconstruction, Westward Expansion, Industrialization, Immigration, Imperialism, Progressivism, and World War I. Each unit will tie into the following themes: diversity, tolerance, and unity.

**U.S. History**–1.0 credit (year course)

**Prerequisites Offered**  
*Required*

**None Yearlong**  
*11th Grade*

The major objective of the course is to develop an understanding of our present situation and guidelines for future action through a study of our past. The course is two semesters in length and is required for graduation. 1<sup>st</sup> semester begins with the Progressive Era to WW II. Second semester begins with the Cold War through the 21<sup>st</sup> Century. Current events are stressed.

**AP French**–1.0 credit (year course)**Prerequisites****Offered***Elective***Successful Completion of French IV with C- or better grade****Yearlong***12th Grade***Prerequisite: DMACC Credit: FLF 241 (1<sup>st</sup> Semester)****DMACC Credit: FLF 242 (2<sup>nd</sup> Semester)**

This year-long class is the equivalent of FLF 241 and FLF 242 at Des Moines Area Community College, Ankeny, Iowa. Four hours of DMACC credit is available for each successful semester since students will cover the same competencies. While using French almost exclusively, and encouraging my student to do the same, class time is devoted to a thorough study of grammar, reading and discussing francophone literature, writing personal essays, all with the emphasis on refining students' reading, writing and speaking and listening skills. Language skills are improved upon through weekly journals and daily guided conversations among teacher and students. By writing about and speaking on a variety of topics, students expand their vocabulary and develop their communication skills in French. Listening skills are continually developed by watching and discussing French films, engaging in classroom discussions, and listening to French radio programs.

**AP Spanish**–1.0 credit (year course)**Prerequisites****Offered***Elective***Successful Completion of Spanish IV with C- or better grade****Yearlong***12th Grade***Prerequisite: DMACC Credit: FLS 241 (1<sup>st</sup> Semester)****DMACC Credit: FLS 242 (2<sup>nd</sup> Semester)**

The course will include the study of advanced Spanish grammar, literature, the improvement of vocabulary and an abundance of opportunities to listen, read, write and speak extensively in Spanish in preparation for the AP Spanish Grammar and Composition exam. The student will use several college textbooks and materials and may choose to take "dual credit" both semesters for four hours each semester under the auspice of DMACC. The JHS class requirements are the same for the student regardless of taking or not taking the course for "dual credit". This course is a "weighted" course at JHS, but not at DMACC. The "dual credit" grade uses a "+" or "-" grade designations, whereas JHS does not. Spanish is the language of this course and will be used by both students and the teacher. Students can earn 4 DMACC credits per semester.

**French I**–1.0 credit (year course)**Prerequisites****Offered***Elective***Minimum of a "C" Average in English Previous Year****Yearlong***9-12th Grade*

A two-semester course designed to develop basic language skills in listening comprehension, speaking, reading and writing. Successful completion of first-year French should enable the student to read and write French within limits and to carry on simple conversations. The student is also exposed to the culture of France.

**French II**–1.0 credit (year course)**Prerequisites****Successful Completion of French I with C- or better grade****Offered***Elective***Yearlong***9-12th Grade*

A two-semester course designed to maintain and improve the skills of listening, speaking, reading and writing acquired in first-year French. The student's ability to communicate in French is increased this year. The student will continue to learn about France and other French speaking countries.

**French III**–1.0 credit (year course)**Prerequisites****Successful Completion of French II with C- or better grade****Offered***Elective***Yearlong***10-12th Grade*

A two-semester course with continued emphasis on listening, speaking, reading and writing skills. French III students continue their study of grammar and culture, with special emphasis on speaking and listening abilities, through the use of a video series.

**French IV**–1.0 credit (year course)**Prerequisites****Successful Completion of French III with C- or better grade****Offered***Elective***Yearlong***11-12th Grade*

While using French almost exclusively, and encouraging students to do the same, class time is devoted to a study of grammar, reading, and modern French culture, writing personal essays, all with the emphasis on improving students' reading, writing and speaking and listening skills. Language skills are improved upon through daily guided conversations among teacher and students. By writing about and speaking on a variety of topics, students expand their vocabulary and develop their communication skills in French. Listening skills are continually developed by watching and discussing two French feuilletons, engaging in classroom discussions, and listening to a French murder mystery.

**Spanish I** –1.0 credit (year course)**Prerequisites****Minimum of a "C" Average in English Previous Year****Offered***Elective***Yearlong***9-12th Grade*

A two-semester course designed to develop basic language skills in listening comprehension, speaking, reading and writing. Successful completion of first-year Spanish should enable the student to read and write Spanish within limits and to carry on simple conversations. The student is also exposed to the culture of Spanish-speaking countries.

**Spanish II**–1.0 credit (year course)**Prerequisites****Successful Completion of Spanish I with C- or better grade****Offered***Elective***Yearlong***9-12th Grade*

A two-semester course designed to maintain and improve the skills of listening, speaking, reading and writing acquired in first-year Spanish. The student's ability to communicate in Spanish is increased this year. The student will continue to learn about Spain and other Spanish speaking countries.

**Spanish III**–1.0 credit (year course)**Prerequisites****Offered***Elective***Successful Completion of Spanish II with C- or better grade****Yearlong***10-12th Grade*

A two-semester course with continued emphasis on listening, speaking, reading and writing skills. Spanish III students continue their study of grammar and culture, with special emphasis on speaking and listening abilities.

**Spanish IV**–1.0 credit (year course)**Prerequisites****Offered***Elective***Successful Completion of Spanish III with C- or better grade****Yearlong***11-12th Grade*

This course includes a general review and in-depth enhancement of all Spanish grammar, while expanding the student's vocabulary and knowledge of historical and cultural aspects of Spain and Spanish America. Many student homework activities will be computer based. Extensive speaking, reading, listening and writing by the student will occur in both semesters of Spanish IV.

Second semester continues the above while focusing further on the practical use of Spanish and employs a college textbook and materials, including exercises via the computer. Spanish is the language of this course and will be used by both students and the teacher.

**9<sup>th</sup> Grade Seminar**– 1.0 credit (year course)

**Prerequisites  
Offered**  
*Elective*

**None  
Yearlong**  
*9<sup>th</sup> Grade*

Seminar focuses on six key components to being successful in high school and beyond.

The first is creating an advisor/advisee relationship with an adult. Students will work with one staff member throughout their 9<sup>th</sup> grade year. The ability to have a staff member that they can go to for academic and or social support is important for educational success.

The second component is character development. Students will be guided through the Character and Leadership curriculum. This curriculum focuses on historical and social approaches to teaching character. There are 18 character traits that will be taught through various activities and assignments.

The third area of Seminar is community service. Each student will be required to participate in a community service project. Students will have input into the selected project with final approval from the teacher and administration. Community Service Projects will also have an academic background through research and planning. Students will be required to do research before selecting a project and then will have to be able to distinguish the importance of their selection based on background knowledge.

The fourth area is college and career planning. Students will continue to build off of their 8<sup>th</sup> grade plan. This will include on-line interests inventories, college exploration, career information, and planning the courses needed during the next three years of high school.

The fifth area is academic support. Students will be given the opportunity to work with staff to complete assignments, gain needed knowledge, participate in peer tutoring, and sustained silent reading.

The sixth area is life skills training. Students will have speakers, activities, and academic lessons to guide them in making positive life choices. These opportunities will focus on bullying, drug and alcohol prevention, peer relations, coping skills and dealing with life's stressors.

The primary goal of Seminar is to provide 9<sup>th</sup> grade students with an adult advocate and help in the transition to high school.

**This course does not meet the recommended requirements for the NCAA clearinghouse or four-year college admission.**

**ELL Program**–0.5 credit (year course)

**Prerequisites  
Offered**  
*Elective*

**None  
Semester Long**  
*10-12<sup>th</sup> Grade*

The English Language Learners program (ELL) provides English Language Learners with an opportunity to acquire proficiency in listening, speaking, reading and writing English. The ELL Program promotes a positive learning environment in which students learn how to be successful in an American academic setting. Specific strategies are used to help students acquire English.

**ELP 10-12 (Extended Learning Program-Upperclassmen)**–0.25-0.5 credit (half year)

**Prerequisites  
Offered**  
*Elective*

**Instructor Approval  
Semester Long**  
*10-12th Grade*

Designed for students gifted in the areas of creativity, general intellectual ability or specific academic aptitude. ELP 10-12 involves the use of independent learning skills. Creative thinking, self-direction and self-evaluation are necessary, as students will create, complete and evaluate self-designed projects. This is an elective credit. If students meet every day, they will receive .5 credit for each semester. If students meet every other day, they will receive .25 credit for each semester.

**Independent Study**–0.5 credit (half year)

**Prerequisites  
Offered**  
*Elective*

**Determined by Teacher  
Semester Long**  
*11-12th Grade*

Independent Study is designed to allow advanced and/or talented students to pursue their interests in depth in any subject area. The teacher and student will write a contract setting out specifics of the study. The project or study should require approximately ninety hours to complete. Administrative approval required.

**Service Credit**–0.5 credit (half year)

**Prerequisites  
Offered**  
*Elective*

**None  
Semester Long**  
*9-12th Grade*

Service Credit is designed for independently motivated students who are interested in serving others. A written contract will be required to be drawn up between the student, counselor and supervisor. Student must attend every day for one semester or every other day for entire school year to earn .5 credit.

All Special Education programs require determination of eligibility through testing and/or observation. After evaluation, a meeting is held and those determined eligible will be placed in the appropriate programs.

All programs are a year- long course and credit is received for successfully completing the assigned work.

### **EBCE (Experience Based Career Education)–1.0 credit (year long)**

**Prerequisites  
Offered**  
*Elective*

**Approval of Staffing Team  
Yearlong**  
*11-12th Grade*

This course is designed for any junior or senior, who has been recommended by the IEP staffing team, who is interested in exploring future career choices on an individualized basis. It is an experience based career education program designed to use the community, as well as the classroom, for learning. The course allows the opportunity to explore possible careers and to make them aware of the preparation needed for careers in which they are interested. Students would be placed at a job site three days a week with two hours a day for an average length of 9 weeks. Students report to class weekly to work with their teacher evaluating the previous weeks learning activities and designing activities for the following week.

The students will come from the identified special education population. Those students who have an identified need for work experience at the IEP meeting are excellent candidates. Special situations will need to obtain prior approval from the instructor (work experience coordinator).

### **Skill Development–1.0 credit (year long)**

**Prerequisites  
Offered**  
*Elective*

**Approval of Staffing Team  
Yearlong**  
*9-12th Grade*

This class provides specially designed instruction for students with individual education plans in the areas of reading, writing, and math needs. Instructional activities are delivered on a regular basis for specific periods of time. Students are also taught study skills, self-advocacy, character building and assistance for transition planning. Instructor approval is required.

**ANIMAL SCIENCE AND HORTICULTURE**

Grades: 10-11-12

Prerequisites: GREAT Attitude, energetic, hard working

Students will learn to identify more than 200 plants and scientific terms relating to horticulture. Students manage 8000 square feet of greenhouse and a ½ acre nursery. Poinsettia production, vegetable production, retail sales, landscaping, business planning, and a science fair project are included in the coursework. Animal Science includes animal reproduction, nutrition, identification, diseases, and handling of animals including horses, chickens, donkeys, sheep, llamas, and rabbits. Students manage 2,000 gallons of fresh water tanks and the raising of fish. Opportunities for career exploration are available by partnerships with the Blank Park Zoo and veterinarians. To enhance speaking and leadership skills, students are members of FFA, a national leadership organization with opportunities for scholarships and trips. Study tours are taken around Iowa and the United States to enrich learning.

**ARMY JROTC**

High School Credit: 1 or 2 per year

CHARACTER. CONFIDENCE. LEADERSHIP.

That's Army JROTC training. And while nothing worthwhile is ever easy, uncovering the leadership qualities and personal skills already living within you pays off big time. JROTC helps you discover the quiet confidence and inner strength that makes goals a reality.

**As an Army JROTC officer, you will learn to:**

- Appreciate the ethical values that underlie good citizenship.
- Develop leadership potential and learn to live and work cooperatively with others.
- Think logically and communicate effectively, both orally and in writing.
- Appreciate the importance of physical fitness in maintaining good health.
- Understand ways to resist negative peer pressure and to support others.
- Develop mental management abilities.
- Develop skills to work effectively as a member of a team.
- Become familiar with military history as it relates to America's culture and with the history, purpose, and structure of the military services.
- Understand the importance of high school graduation to a successful future.
- Learn about college and other advanced educational and employment opportunities.

Prerequisites:

Let 1 (First Year): At least 13 years of age, a high school student

Let 2 (Second Year): A high school student, successfully passed Let 1

Let 3 (Third Year): A high school student, successfully passed Let 1 and Let 2

Let 4 (Fourth Year): A high school student, successfully passed Let 1, Let 2, and Let 3

*JROTC is not a recruitment program, nor do students have any obligation to enter the military. It simply utilizes the military structure as a vehicle to develop and improve students' self-discipline, confidence, and pride.*

**AUTOMOTIVE COLLISION REPAIR**

Grades: 11-12

Prerequisites: Metal Fundamentals or Technology Today recommended

Auto Collision Repair provides students with experience through actual performance and close supervision on late model, damaged automobiles. Quality workmanship, shop safety, good work habits, cooperation, dependability and responsibility are stressed. Students become familiar with and work with the latest hand and power tools and equipment unique to this trade. The course is designed to operate on the same level of workmanship as found in auto body shops.

**AUTOMOTIVE TECHNOLOGY**

Grades: 11-12

Prerequisites: Automotive Fundamentals or Technology Today recommended

The Automotive Technology program is certified by the National Automotive Technology Education Foundation. Students complete competencies in eight automotive areas and are introduced to technician positions through tours and job-shadowing experiences. The Automotive Technology program is an AYES, or Automotive Youth Educational System, program allowing successful students to ultimately work in an internship beginning the summer of their junior year and into their senior year in the dealership or other automotive-related businesses learning from masters in the field of automotive technology.

**AVIATION TECHNOLOGY**

Grades: 10 -11-12

Prerequisite: An interest in aviation and aviation careers

The Aviation Technology program is a career area designed to train aviation maintenance personnel for airlines and general aviation fields such as fixed base operators, repair stations, military aviation, and corporate aircraft operators. The Central Campus program is a fully certified Federal Aviation Administration Part 147 program. Students who complete all coursework have the opportunity to be certified in General, Air Frame, and Power Plant. The program is designed so that students can begin the coursework as a high school student and complete it with one additional year as a DMACC student. Seniors who qualify spend 15 weeks in an internship with the Iowa Air National Guard's 132nd Fighter Wing - the only internship of its kind in the nation. Additional placement opportunities exist in such fields as aircraft sales, service, stock management, field representation, technical writing, manufacturing, and government agencies.

**BROADCAST & FILM**

Grades: 11-12

Prerequisites: C or better in Speech and English, attend program orientation

This dynamic course provides students with experiences in writing and producing a variety of radio and television programs in the classroom with closed circuit equipment. Writing, voice awareness, and skills necessary for broadcasting are discussed. Radio and television news, pop music programs, simple commercials, voice analysis, and skill in reading are stressed. The program could include studio assignments in FCC licensed radio station KDPS 88.1 FM. Students may also focus on film analysis and technique.

**CAREER OPPORTUNITIES IN HEALTH**

Grades: 11-12

This is a one year program.

Students are introduced to a variety of health careers through a curriculum that integrates academic and workplace skills. Internships at Iowa Health Systems provide hands-on experiences in local hospitals and clinics which allow students to explore careers and develop personal skills while looking at the big picture of health care.

**COMMERCIAL PHOTOGRAPHY**

Grades: 11-12

Prerequisites: Minimum of 3.0 GPA or an A or B in two of the following courses: Art 1, Art 2, other art classes. Photography, Multimedia or other related computer class, and attend program orientation.

Students have the opportunity to obtain skills in processes, procedures, studio techniques, understanding camera types, photographic theory, photographic history, and digital imaging. There will be an emphasis toward portfolio development to enable students to apply for employment, scholarships, and college

admission. Students will publicly display work at the Central Campus Art Show and other exhibitions. Students are required to supply their own 35mm adjustable camera.

### **COMPUTER AIDED DRAFTING & DESIGN TECHNOLOGY**

Grades: 11-12

Prerequisites: Introduction to Technology, Technology Today or Drafting recommended

CADD emphasizes drafting principles, engineering standards, the use of technical handbooks, and knowledge of industrial production practices and building materials. The machine design section emphasizes threads, fasteners, gears, cams, motion diagrams, dual dimensioning and the principles of numerical control machining. The students develop floor and foundation plans; calculate loads; prepare structural details and sections; draw exterior and interior elevations; calculate the mechanical needs and make the necessary drawing for the electrical, plumbing, heating and cooling systems. The course includes field trips to study architecture and the industry.

### **COMPUTER TECHNOLOGY & NETWORKING**

Grades: 11-12

Prerequisites: B or better in Computer Applications, good reading and math skills, and attend program orientation

Computer Technology and Networking is a one-year course designed to assist students in acquiring the knowledge and skills needed for success in one of today's fastest growing career areas. The content of the course includes evaluation, repair, replacement of computer hardware components, installation and configuration of computer operating systems, identification and installation of networks, troubleshooting computer operating problems, infrastructure components, design of network protocols and architecture, and network administration. Students are prepared to test for many industry certifications including A+, Novell, Microsoft, and Cisco.

### **CULINARY ARTS & RESTAURANT MANAGEMENT**

Grades: 10-11-12

Prerequisites: GPA at a 2.0 or better, Foods course recommended, C or better in Algebra, program orientation

Culinary Arts prepares students for employment in the hospitality and food service industry through Pro Start Certification from the National Restaurant Association. Students learn baking procedures for quick breads, muffins, pies, yeast breads and rolls, cakes and cookies. Students learn chef-knife skills and preparation procedures for soups, salads, sandwiches, frying, pastas, cheese and egg cookery and meat. Students learn to plan and prepare food in quantity, use institutional equipment, set up a dining room, serve customers, prepare special meal functions, calculate costs, schedule work in the Campus Cafe', rotate through several internships and design an employment portfolio. Students also enjoy several field trips to restaurants and other hospitality businesses, host several banquets, some of which include guests from around the world.

### **EARLY CHILDHOOD CAREERS**

Grades: 11-12

Prerequisites: GPA at a 2.0 or better, Child Development recommended, attend program orientation

Early Childhood Careers prepares students to work with children from infancy to 9 years of age. Students combine classroom instruction with practicum experiences in childcare centers, Head Start programs, and elementary schools. Students complete the training required by the Iowa Department of Human Services for persons working in childcare centers. Students completing this program can find employment in childcare centers or may choose to further their studies in elementary or early childhood education.

**ENGINEERING, ROBOTICS & ELECTRONICS**

Grades: 10, 11, 12

Prerequisites: C or better in Algebra I

Engineering, Electronic and Robotic Systems is a one year course focusing on the application of electronics and physics. Students will work with and understand the operation of electronic devices, transistors, and integrated circuits. Students will apply this knowledge to project-driven course work including the operation and programming of robots and robotic systems. This course is designed for students with an interest in science, engineering, or electronics.

**FASHION DESIGN & MERCHANDISING**

Grades: 10, 11, 12

Prerequisites: A or B in Sewing or Fashion recommended, attend program orientation

Students explore various fibers, fundamentals of color, and the process of the fashion industry from concept to consumer including promotion, buying inventory, pricing, arranging a store's layout, window display, and advertising. Students study designers, historical and current trends, fashion vocabulary, styles in relation to various body types and personalities, and the importance of alterations and fit. Students learn how to improve sewing skills, create fashion drawings, analyze designs, and develop patterns using the "flat pattern" method. Students study how computers have impacted fashion and explore the impact of retail establishments and fashion publications. The program is enriched by a student-produced fashion show and fashion study tours.

**GRAPHIC COMMUNICATION**

Grades: 10, 11, 12

Prerequisites: A or B in Art I and Art II and a desire to work in a growing industry!

Printing & Graphic Technology provides training, education, and real world print production experience for students. Through communication and open relationships with industry, the program's curriculum and industry experiences will reflect the technological expectations of the printing industry. Coursework, tours, job-shadowing and internship experiences provide the foundation for students to enter the industry after graduation as well as continue their pursuit of the trade in post-secondary education.

**HOME BUILDING**

Grades: 10-11-12

Prerequisites: C or better in Algebra and Geometry, interest in construction

First year students will learn the skills needed to build a house from the basement up and when they have mastered those skills, they will use them on construction of a modern, three bedroom home. This course stresses craftsmanship in framing, doors, trim, cabinetry, drywall, and finish work. In addition, students will learn teamwork and business skills. Students will share the responsibility of budgeting, purchasing, and estimating to prepare for careers in contracting. The program provides a direct link to the local union apprenticeship program and completion of the apprenticeship welding course!

**INDUSTRIAL ELECTRICITY**

Grades: 11-12

Prerequisites: Introduction to Technology or Technology Today recommended

Industrial Electricity is a two year course that teaches career skills in motors and motor controls like the ones used in factories across the country, including programmable logic controllers. Students also study commercial and residential wiring systems and construction techniques, design and planning of security and

fire alarm systems, telephone and fiber optic communications and layout and cabling for interconnecting LANs.

### **IOWA ENERGY AND SUSTAINABILITY ACADEMY**

Grades 10-11-12

Prerequisite: An interest in energy and taking care of this great planet we call home

IESA is a class where students use hands on/project based techniques to explore all types of environmental topics such as resources, including land, air and water. As well as energy, fossil fuels, nuclear, solar, wind, geothermal, and hydrogen fuel cells. This class is a two year program. A background in Biology, Environmental Science or Earth Science is helpful but not required. Several field trips are taken during Spring Break of the 2<sup>nd</sup> year of the program.

### **MARINE BIOLOGY/LAB**

Grades: 10-11-12

Prerequisites: GPA of 2.3 or better and grade C or better in each of the following: Biology or Chemistry and Algebra II. *2nd year possible with permission of instructor*

Learn the chemistry, physics, geology and biology of the ocean. Units include polar, temperate, and tropical marine animals and plants and their environments and ecology. Learn to identify organisms encountered along a shoreline, while snorkeling or scuba diving. The study of these organisms will include dissection and observations of live organisms in the 70 class aquariums (largest-800 gallons). The course includes numerous hands-on activities: in-class labs, field observations, marine aquarium care, snorkeling, kayaking, and introductory scuba. Full certification in scuba during class is possible but will involve costs for equipment. A 17-day ecology study trip to Florida is offered in March.

### **NURSE AIDE SPECIALIST**

Grades: 11-12

Prerequisites: 2.5 GPA, excellent attendance, interest in a health career, attend program orientation, submit teacher recommendation. Current physical and updated immunizations, Hepatitis B vaccine is recommended.

This course is designed for individuals seeking employment in any healthcare setting, or to pursue a college degree in nursing. This course fulfills requirements for admission to some college nursing programs. Students will develop nursing assistant skills in the classroom and laboratory setting at Central Campus and practice patient care in various Des Moines health care facilities. Upon successful course completion, students will be prepared to the CAN (certified nurse assistant) exam. Students will learn the vocabulary and skills required for a successful career in health. They will visit health care and college settings. The student will need to be flexible, be able to take directions and be a team member. A uniform is required.

### **NURSE AIDE & ADVANCED NURSE AIDE**

Grades: 11-12

Prerequisites: 2.0 GA for 75-hour Nurse Aide course and a 2.5 GPA or better for the Advanced Nurse Aide Class, having excellent attendance, submit a teacher recommendation, submit a student application and attend a program orientation. A current physical and updated immunizations are required. Hepatitis B vaccine is required.

This is a one semester class, students take one or the other.

Nurse Aide certification is now required for admission to most Iowa nursing schools. Either of these course prepares students for the nurse aide certification. This course includes classroom and laboratory instruction at Central Campus and supervised clinical experience at various health care settings. In addition to the content of the 75-hour Nurse Aide class, the 150-hour Advanced Nurse Aide class covers skills and knowledge utilized by nurse aides in skilled-care units and in hospital areas. Content in the 150-hour class is presented at a faster pace than in the 75-hour Nurse Aide class.

**PAINTING & DRYWALL**

Grades: 10-11-12

Prerequisites: Industrial technology class recommended

Painting and Drywall provides students with the career and technical skills required for employment in the paint industry. The students learn the safe and proper use of hand and power equipment in the application of a variety of finishes. The students develop skills in the use of various materials, application methods, surface preparations and the cost of materials and labor. Some specific skills taught are brush and roller applications, spray painting, sheet rock taping, paper and vinyl handling. The program provides a direct link to the union apprenticeship. Students can earn a ten-hour OSHA card for general construction.

**TEACHER ACADEMY**

Prerequisites: GPA at a 2.5 or better, attend program orientation

The Teacher Academy at Central Campus is a program designed to provide students with skills and opportunities to become secondary educators. Students will explore teaching opportunities through tutoring sessions at the middle school, field trips to many types of learning institutions, presentations in class and from speakers who are experts in the field of education or education-related organizations and spending time observing in many classrooms throughout the central Iowa area. In addition, students will earn college credit for education classes and visit many college of education programs. Second semester is highlighted through participation in internships at cooperating middle and high schools with master teachers. The Teacher Academy provides an excellent foundation and transition to college teaching preparation.

**WELDING**

Grades: 11-12

Prerequisites: Metal Fundamentals or Technology Today recommended

Welding provides students with the occupational and technical skills to be safe, competent welders. Students develop skills in different welds such as oxy-acetylene, shield metal arc, mig flame and plasma arc cutting. Students learn tig welding and will also learn to weld a variety of steels and steel alloys. Skills include blueprint reading, design, layout, and fabrication of large projects.

**For more information on how to enroll in Central Campus career and technical programs, contact your counselor.**

<b>CENTRAL CAMPUS LANGUAGE COURSE OFFERINGS</b>
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**Chinese**

- Elementary Chinese (141) - Levels I & II

Grade: 10-12<sup>th</sup>

Prerequisite: None

Elementary Chinese is offered in a way that enables students to get out of the classroom and into real-life situations. This course introduces students to the Chinese language (Mandarin) and to various Chinese cultures. A holistic approach is taken, with emphasis placed on developing listening, speaking, reading and writing skills. Chinese characters are introduced early on to provide the necessary foundation for later study. The language will be brought alive by acting out skits and with other role-playing activities involving games, computers, video, etc. Students leave the confines of the classroom as much as possible to make use of the language in real-life environments like the Asian markets and the zoo. Students will use technology to interact with Chinese native speakers throughout the world using Chinese e-mail; learn to word process in Chinese;

and make digital movies with Chinese subtitles and overdubbing. Those who complete this course will be eligible to participate in the triennial mountain trek to southwest China.

- Intermediate Chinese (142 & 241) - Levels III & IV

Grade: 11-12

Prerequisites: Chinese II or the equivalent (two years of high school Chinese, or two semesters of college-level Chinese), or the permission of the instructor.

Intermediate Chinese takes up where Elementary Chinese leaves off. In this intensive course, students reinforce and build on their acquired skills in listening, speaking, reading and writing for later, more independent work in the language. Intermediate Chinese allows students the freedom to pursue areas of personal interest with self-paced independent projects. There will be more one-on-one interaction with the teacher, with a continued emphasis on providing students the wherewithal to study the language on their own. Students will continue to use technology to interact with Chinese native speakers, for Chinese word processing, and making digital movies.

- Advanced Chinese (242) - Level V

Grade: 11-12th

Prerequisites: Chinese IV or the equivalent (four years of high school Chinese, or four semesters of college-level Chinese), or the permission of the instructor.

Advanced Chinese will move students into beginning newspaper reading and the study of other authentic materials. Culture will be explored through readings about festivals and Chinese traditions. There will be a continued emphasis on independent learning and one-on-one teacher-student interaction. **Students who successfully complete Chinese V will be eligible to take the Advanced Placement Chinese Exam.**

## GERMAN

- Elementary German (141) - Levels I & II

Grade: 10-12<sup>th</sup>

Prerequisite: None

Beginning German is a hands-on course that develops listening, speaking, reading and writing skills. Students are actively involved in learning the language and the culture through games, videos, music, group activities such as creating Gingerbread houses, designing/performing in a fashion show, E-mailing German pen-pals and much more.

- Intermediate German (142 & 241) - Levels III & IV

Grade: 11-12th

Prerequisites: German II or the equivalent

Intermediate German is a refinement and extension of concepts taught in Elementary German. It is a hands-on course that includes travel survival skills, such as trips to an airport, post office, marketplace or supermarket. The AATG test, which gives the students the opportunity for awards and a possible free trip to Germany, is part of this class. If you want to be able to eat in a German restaurant, mail a letter to the United States or just talk about your car, this course is designed for you. Students who are in their 2nd or 3rd year of German will have an opportunity to visit Germany during our bi-annual spring trip.

- Advanced German (242) - Level V

Grade: 11-12th

Prerequisites: German IV or the equivalent

German V provides students with an opportunity to perfect their skills through role-playing, literature, radio plays, multimedia projects and many other activities. This course will help to answer the question – where do I go from here? Students at this level are eligible for the bi-annual German trip and the AP German Exam.

## ITALIAN

- Elementary Italian (141) - Levels I & II

Grade: 10-12<sup>th</sup>

Prerequisite: None

Beginning Italian is taught in the Tuscan dialect, the official language of Italy and the opera. The emphasis of this course is on successful oral communication and on developing understanding, speaking, reading and writing skills, as well as grammar analysis. Elements of the culture of Italy, geography and some history will be included. Students are actively involved in learning both the language and the culture through games, videos and music.

- Intermediate Italian (142 & 241) - Levels III & IV

Grade: 11-12th

Prerequisites: Italian II or the equivalent

Building on concepts learned in Elementary Italian, students write stories and give oral presentations. Films, games, CDs and tapes are used for learning. Readings of Italian civilization are translated. **This course** emphasizes grammar, as well as understanding and speaking the language in the context of cultural materials and current events.

- Advanced Italian (242) - Level V

Grade: 11-12th

Prerequisites: Italian IV or the equivalent

Advanced Italian provides students with an opportunity to perfect their skills through role-playing, literature, radio plays, multimedia projects and other activities including independent study work. If possible, students will be in the field to job shadow. Students may choose to take the AP Italian Exam.

## JAPANESE

- Elementary Japanese (141) - Levels I & II

Grade: 10-12<sup>th</sup>

Prerequisite: None

Beginning Japanese course is designed to help student's develop "language acquisition", rather than "language learning". TPRS (Teaching Proficiency through Reading and Story telling) is employed as a method of instruction for this goal. Students will learn the four skills of language by engaging themselves in action-filled fun stories that provide basic vocabulary and sentence patterns in Japanese. Culture is also emphasized in this course through lectures, video, and hands-on activities. Cultural topics include geography, education, economy, sport, Manga, Japanese history and hands-on activities including tea ceremonies, calligraphy, origami, Japanese cooking, and much more.

- Intermediate Japanese (142 & 241) - Levels III & IV

Grade: 11-12

Prerequisites: Japanese II or the equivalent

Students continue the path of language acquisition through TPRS in intermediate Japanese. In addition to stories, Japanese anime and TV stories are used to help develop students' listening comprehension skills. Students will travel through time to Japan's feudal period by studying a TV mini-series "Shogun" to learn about the moral issues and traditional arts in Japan. Students' learning of language and culture will culminate when they create, perform, and videotape their own Kabuki play near the end of Japanese IV. Students in intermediate Japanese will have opportunities to host Japanese students from our sister schools in Yamanashi prefecture. Those who complete Japanese IV are eligible for the Central Campus/Valley High School Japan trip in the summer.

- Advanced Japanese (242) - Level V

Grade: 11-12

Prerequisites: Japanese IV or the equivalent

Acquisition of the four skills in language continues in advanced Japanese. New sentence patterns and new vocabulary are taught the same way as in the previous years, and more free writing and self-guided free reading are going to be encouraged. Students in Level V have opportunities to host Japanese students, and those who complete Japanese V are eligible for the summer Japan trip.

- Auto Collision Technology (Ankeny Campus)

Designed to prepare students in the highly technological auto collision industry. Students gain experience in the areas of basic shop operations and procedures, welding, and shop safety. Students may earn up to 11 college credits in this Academy.

- Automotive Technology (Ankeny/Carroll Campus)

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. Students earn up to 13 college credits in this Academy.

- Business Administration (Ankeny Campus)

Provides students the opportunity to explore business courses; accounting, macroeconomics, business law and personal finance. Students may earn up to 17 credits.

- Caterpillar/Diesel Technology (Ankeny Campus)

Prepares students for a career in the area of diesel repair, and/or Caterpillar products. Instruction is in the repair, maintenance, and testing of diesel engines, power trains, and components of trucks and construction equipment. Students may earn up to 11 college credits in the Academy.

- Criminal Forensics (Ankeny Campus)

Provides students the opportunity to explore the criminal justice field. Students may earn up to 16 college credits in this Academy.

- Culinary Arts (Ankeny Campus)

Prepares students to enter culinary positions with hotels, restaurants, clubs or institutions and some select jobs in the dining room service, catering or management. Students may earn up to 11 college credits in the Academy. NOTE: Priority is given to Story County students (students outside of Story County will be placed on a waiting list). Students may earn up to 12 college credits in this Academy.

- Health Occupations (Ankeny Campus)

Provides students the opportunity to explore careers in health care. A practicum experience in a health care setting is included in this academy. Students may earn up to 14 college credits in this Academy.

- Machine Operations/Tool & Die (Ankeny Campus)

Students gain experience in machine shop, lathe and mill operations. Students may earn up to 12 college credits in this Academy.

- PLTW—Digital Electronics (Ankeny Campus)

In the PLTW courses students study the digital electronic circuits concentrating on gates, counter, registers and memory. Also included is the study of data communications by bus structure, parallel and serial ports and microprocessors. This is a one-semester program only. Students may earn up to 6 college credits in the Academy.

- Visual Communications (Formerly Graphic/Web Design) (Ankeny Campus)

Provides students the opportunity to explore web pages and computer graphics. Students may earn up to 15 credits.