

CURRICULUM GUIDE 2009-2010

Midland CUSD #7



Midland Mission Statement

Midland High School recognizes that its mission is to provide a well-articulated comprehensive program that has high expectation of students. We believe that, in addition to basic skills, we need to provide a safe atmosphere where students can develop academically, socially, emotionally, and physically.

We believe we must encourage students to be life-long learners who can adjust to the new and different work-based skills that are found in an ever-changing technological society. We share responsibility with parents and the community to help students in developing a sense of respect for themselves and others, and an understanding of the differences between rights, privileges, and responsibilities inherent in a free society.

Midland High School 2009-2010 Curriculum Guide

Dear Parents and Students:

We recognize how important the process of course selection is. To assist you with this, we have prepared this guide to help you understand your many options within the Midland District #7 curriculum. This guide is meant to be a useful tool as you discuss the wide variety of courses that are offered to lead you through a successful high school career.

Please take time to review the introductory portions of the booklet for an overview of the information. Pay particular attention to our minimum graduation requirements as well as guidelines and requirements for college-bound students.

Each year we encourage families to develop an updated four-year plan with their students.

We realize this plan may change as the student changes interests and goals. However, this annual planning is an excellent way to focus on the future through your discussions. Please call on our counselors, teachers and administrators to assist you in the process of making course selections. You will find their experience with other students and familiarity with the curriculum provides them with additional information that you will find helpful.

We look forward to working with you as you plan for a successful academic year.

Midland High School Administration

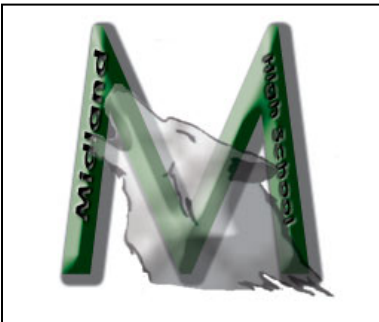


College Entrance Requirements

Students who plan to attend college should carefully select their high school courses. Admissions requirements vary greatly among two-year community colleges, state universities, and private four-year colleges. Families are urged to carefully consider course selections for the remainder of the students' high school career.

- Check the entrance requirements of all possible colleges a student is considering.
- Maximize options by taking more courses than just minimum requirements. Students should carry as rigorous a course load as possible, both in terms of the number of courses taken and the ability level offered.
- Be aware that some colleges and universities will NOT accept for college admission courses that have "Fundamental," "Basic," "Refresher" and "Emphasis" in the title. These courses are primarily designed to help students improve basic skills. The content of these courses vary greatly among high schools and some colleges generally do not believe the content of these courses is substantial enough to be considered "college prep."

Listed on the following page are the high school subjects that are required of freshman entering community college transfer programs and public universities. At some universities, specific departmental requirements may vary



Midland High School 2009-2010 Curriculum Guide

Minimum Public College/University Requirements

Units	Subject
4	English
3	Social Studies
3	Mathematics
3	Science
3	Foreign Language, Music, Art or Vocational Education

4 Year University Requirements

Subject	U of I	Iowa	Ivy
English	4	4	4
Soc. Studies	2	3	3
Math	3.5	3	4
Science	3	3	2 Lab 2 Non Lab
Foreign Lan.	2 yrs	2 yrs	4 yrs
Art/Music	2		1

Class Rank, ACT and GPA Requirements for State Universities

School	Class Rank%	ACT	GPA
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U of I Champaign	Credentials of Enrolled 2007 Freshmen Top 1% 12% Top 10% 59% Top 25% 91% Top 50% 99%	Credentials of Enrolled 2007 Freshmen 32-36 25% 27-31 50% 23-26 19% 22 or less 6%	
UIC University of IL Circle	Satisfactory combination of class rank and ACT or SAT scores		
EIU	Upper ¼ Upper ½ Upper ¾	18 19 22	3.0 2.5 2.25
Northeastern	Upper ½	19	
ISU	High School Transcript	22-26	N/A
NIU	Upper ½ Upper 2/3	19 23	2.75 2.5
SIU	Upper ½	21	
WIU	None Required	20	2.5

PLAN and Predicting ACT Scores as a 9th or 10th Grade Student

The following formulas can be used to estimate and predict your PLAN and ACT scores:

EXPLORE Score + 2 = Predicted PLAN Score

PLAN Score + 4 = Predicted ACT Score

It is estimated that a score of 20 on the ACT portion of the 11th grade PSAE test equates to a score of “Meets” on the state test. **If your predicted ACT score is less than 20, or not what you will need for college entrance, consider the following to improve your scores:**

- ✓ Enroll in more challenging courses – particularly in Math and English or other courses requiring a good deal of reading.
- ✓ Take advantage of practice materials and opportunities using time restrictions similar to test situations.
- ✓ Take a serious interest in all coursework.
- ✓ Take advantage of summer opportunities to get ahead or strengthen your skills.



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of our communities.



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GRADUATION REQUIREMENTS

As a prerequisite to receiving a high school diploma, each student must successfully complete the following courses and acquire the following required number of credits.

Required courses:

English	- 4 credits
Mathematics	- 3 credits
Science	- 3 credits
Social Studies	- 2 credits (one unit of United States History and ½ unit of Geography is required)
Consumer Education	- ½ credit
Health Education	- ½ credit
Physical Education	- 3 ½ credits
Elective	- 3 credits--chosen from Music, Art, Foreign Language, and Vocational Education (beginning with the class of 2013)

19 ½ credits for required courses

Generally, classes which meet for 2 semesters earn 1 unit of credit. Classes that meet for 1 semester earn ½ unit of credit.

Required Credits

19 ½ credits – required courses
3 credits – additional elective courses
22 ½ credits – total

All students must take 4 academic credits plus P.E. each year.

In addition, all students must complete community service hours before graduating.

Class of 2010 (Seniors) -- 12 hrs.

Class of 2011 (Juniors) -- 18 hrs.

Class of 2012 & 2013 (Sophomores & Freshmen) -- 24 hrs.

Recommended For College by the Board of Higher Education and the Illinois Community College Board

1. Four credits of Language Arts
2. Three credits of mathematics (Algebra 1 and higher levels of mathematics)
3. Three credits of laboratory science
4. Three credits of social studies (emphasizing history and government)
5. Two credits of electives in foreign language, music, art, or career and technical education

Grading Scale

A+	100
A	92-99
A-	90-91
B +	88-89
B	82-87
B-	80-81
C +	78-79
C	72-77
C-	70-71
D +	69
D	66-68
D-	65
F	64 and below

Grade Point Average Weighting

Each student's G.P.A. will be calculated on the following scale:

A	=	5
B	=	4
C	=	3
D	=	2
F	=	0

Honors courses will be weighted as follows:

	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>F</u>
Advanced Mathematics	7	6	5	4	0
AP Calculus	7	6	5	4	0
Physics	7	6	5	4	0
Anatomy & Physiology	7	6	5	4	0
AP Biology	7	6	5	4	0
English 4 AP	7	6	5	4	0
English 4 CP, 3 CP	6	5	4	3	0
Algebra 2	6	5	4	3	0
Chemistry	6	5	4	3	0
Spanish 3 & 4	6	5	4	3	0

Jr. College 4-yr. transferable credit classes are double weighted. All other classes will be weighted as normal.

Semester Grading

A semester grade is composed of two 9-week grades and a final exam grade. Each 9-week grade will count for 40% of the semester grade, while the semester exam will count for 20% of the semester grade. Thus, the computation will be as followed:

$$40\% + 40\% + 20\% = 100\%$$

If any two of the three grades, which comprise the semester grade, are F's, the student will automatically fail the semester. If a student has a B+ for one 9 weeks grade, an F for the next 9 weeks grade, and an F for the semester exam, the student will fail the semester. A semester grade is the only grade entered onto a student's permanent record.

The following scale is used to compute honor roll status:

A+	.....	5.25
A	.....	5.00
A -	.....	4.75
B+	.....	4.25
B	.....	4.00
B -	.....	3.75
C+	.....	3.25
C	.....	3.00
C -	.....	2.75
D +	.....	2.25
D	.....	2.00
D -	.....	1.75
F	0.99 and below	0.00

ENGLISH DEPARTMENT

Four (4) credits of English are required for graduation

English classes 9 – 12 will keep writing portfolios, which will be given to the student at the conclusion of his or her senior year.

English 1

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grade 9
Prerequisite: None

Description: This course includes the study of various types of writing (poetry, short story, drama, novels, and nonfiction) as well as composition, listening, and speaking skills. Independent reading by the student is encouraged. The study of grammar will be done in conjunction with composition. Each student will keep a journal and writing portfolio.

English 1CP (College Prep)

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grade 9
Prerequisite: None

Description: This course will study the same types of writing and composition as in English 1. The difference will come in the pace of the course and the higher expectations for homework and project requirements. Prerequisites include teacher recommendation, grades, and a graded writing sample.

English 2

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grade 10
Prerequisite: None

Description: This course will study different types of literature and writing, such as short stories, poetry, plays, novels, etc. English grammar and vocabulary words will also be studied. Short writing assignments will also be required, and a research paper is required in order to receive credit. This class is similar to English 2 CP, but will be taught at a modified speed. This course uses the same textbook as English 2 CP.

English 2CP (College Prep)

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grade 10
Prerequisite: None

Description: The following course will study different types of literature and writing, such as short stories, poetry, novels, plays, etc. For example, students will study a modern play and a classic Shakespearean play. Students will also study more advanced vocabulary, grammar, techniques of

expository speeches, and a variety of discussion activities. Students will engage in a variety of writing assignments, and a research paper is required in order to receive credit. English 2 CP is considered a beginning college preparatory course, and students must meet grade and teacher expectations. Students who are repeating English I will not be eligible for this class unless a teacher recommends it.

English 3CP (College Prep)

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grade 11
Prerequisite: None

Description: This course will concentrate on the study of American literature and the relevance of each age to its society at the time. The course will cover the beginnings of American literature since the colonial period through contemporary American authors and their works. This class will also include composition and a research project. Grammar study will be done in conjunction with writing/composition. Writing portfolios will be kept by each student. This is a single weighted course.

English 3

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grade 11
Prerequisite: None

Description: See English 3 CP. The same textbook and similar writing and literature assignments will be required for this class; although it will be taught at a modified rate of speed compared to English 3 CP. Writing portfolios will also be required for each student.

English 4

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grade 12
Prerequisite: None

Description: This course will use the same textbook as English 4CP, and many of the same requirements in writing, composition, and literature will be covered. The difference will come in the pace of the course. A research paper is required in order to receive credit for this class. Students who take this course will be prepared for the level of work required in any college freshman English course, regardless of whether it be a four-year university, community college, or a technical school.

English 4CP (College Prep)

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grade 12
Prerequisite: (College prep or waiver)

Description: This course is a single weighted course for those students who plan to attend a 2 or 4 year college. The class will cover the writing process and its basic elements, research for writing, and the different forms of writing such as personal, analytical, persuasive, and research-oriented. Students will also cover reading and study skills, speaking and thinking skills, proofreading, and several plays of Shakespeare. This class is designed to bring students to senior level proficiency in writing, grammar usage, reasoning, research, and analysis. A student who has not taken English 3 CP may be considered for this class with a teacher recommendation. Note: This class prepares students for entering the freshman year sequence of English composition required at a four-year university or college.

English 4AP (Advanced Placement)

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grade 12
Prerequisite: B or better in College Prep English 1, 2 and 3; one English teacher recommendation and one other teacher recommendation

Description: This course is a double-weighted honors course. A typical student in this class has maintained a B or better in freshman, sophomore and junior college prep English classes, and has recommendations from two faculty members, one being an English teacher. This class will concentrate on close, in-depth reading of world literature from the 16th century to the present, from short stories, poetry and the novel. Students will engage in literacy analysis essay writing, research writing and persuasive writing. A research paper is required in order to receive credit for this class. This class is run like a college level English literature course. Students will receive a syllabus, and it will be their responsibility to be prepared for class each day. The reading and writing load is heavy, and grades are based on quizzes, tests, and major writing assignments, not daily homework assignments. Students enrolled in this course may take the Advanced Placement English Literature and Composition exam in May, in which a passing score will earn the student college credit, but it is not a requirement of the class.

Creative Writing

Duration: 1 Semester
Credits Earned: ½ Credit
Open to: Grades 11, 12 (Grade 10 with permission)
Prerequisite: None

Description: This class will encourage students in diverse forms of verbal self-expression. To this purpose there will be great emphasis on personal experience as a source of creative writing. Students will learn that there are various literary genres through which they may express themselves. There will also be significance placed on effective revision. The hope of this class is to encourage creative writing as a life-enhancing activity.

Speech

Duration: 1 Semester
Credits Earned: ½ Credit
Open to: Grades 11, 12 (Grade 10 with permission)
Prerequisite: None

Description: This class is primarily designed to help those students who are interested in public speaking. A variety of techniques will be taught to help the student become comfortable speaking in public, particularly for the purpose of small group presentation and demonstration. This class is highly beneficial to students who will be required to take speech in college and also for those students who have difficulty presenting in front of a group.

English 110 Composition -- Elective (ICC Dual Credit)

Duration: 1 Semester
Credits Earned: ½ Credit
Open to: Grades 12
Prerequisite: Appropriate score on the ICC English placement test

Description: This course progresses the student from writing expressive compositions (expressing the ideas of the writer) to writing referential compositions (explaining or analyzing the subject matter for the reader) to writing persuasive compositions (persuading an audience), through critical reading, discussion, exercised, conferences, and revision. The majority of the writing is referential. Three lecture hours per week.

MATHEMATICS DEPARTMENT

*Three (3) credits of math are required for graduation
See attached flow chart at the end of this booklet*

Basic Pre-Algebra

Duration: 1 Year (2 periods/day)
Credits Earned: 1 Math Credit, 1 Elective Credit
Open to: Grade 9
Prerequisite: None

Description: This course is intended to introduce students to the same basic content covered in Pre-Algebra, but at a slower rate. Other basic math skills will also be reviewed. Upon completion it is expected the student will enroll in Algebra 1.

Pre-Algebra

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grade 9
Prerequisite: None

Description: This course is designed to be an introduction to the fundamentals of Algebra. Topics include solving equations and inequalities, factoring, problem solving, and story problems, working with polynomials, and integers and rational numbers. Upon completion it is expected the student will enroll in Algebra 1 CP or Algebra 1 if recommended.

Algebra 1 CP

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grade 9
Prerequisite: None

Description: Algebra 1 is a two semester college preparatory course intended to introduce students to such areas as: operations with real numbers, writing and solving equations, operations with polynomials, factoring polynomials, using fractions in percent and ratio problems, rules of exponents, solving systems of equations, working with lines, working with rational and irrational numbers and graphing. Students should have a strong understanding of basic math skills since a calculator is used minimally throughout the course. Upon completion it is expected the student will enroll in Geometry CP.

Algebra 1

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Students who have failed Algebra 1 CP
Prerequisite: Pre-Algebra or Basic Pre-Algebra

Description: Algebra 1 is a two-semester college course intended to introduce students to the same basic content covered in Algebra 1 CP, but at a slower rate. Some elements of Geometry will also be introduced. Upon completion it is expected the student will enroll in Geometry.

Geometry CP

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grade 9-10
Prerequisite: Algebra 1 CP or 8th Grade Algebra 1/ may be taken concurrently with Algebra 2 CP

Description: Geometry is a two-semester college preparatory course geared to help students think deductively and apply thought processes to solving problems. Topics covered are: points, lines, planes, angles, parallel lines and planes, if-then statements, basic logic, congruent triangles, geometric inequalities, ratios, proportions, similarities, the Pythagorean Theorem, right triangles, basic trigonometry, tangents, arcs and chords of circles, constructions, areas, solids, distance and midpoint formulas and proofs. Algebraic principles are used throughout the book. Upon completion it is expected/recommended the student will enroll in Algebra 2 CP.

Geometry

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Students who have failed Geometry CP or have completed Algebra 1
Prerequisite: Algebra 1

Description: Geometry is a two-semester course intended to introduce students to the same basic content covered in Geometry CP, but at a slower rate. Upon completion it is recommended the student will enroll in Algebra 2.

Algebra 2 CP

Duration: 1 year
Credits Earned: 1 Credit
Open to: Grades 11, 12
Prerequisite: Geometry CP/ may be taken concurrently with Geometry CP

Description: Algebra 2 is a two-semester college preparatory course, which extends the topics studied in Algebra 1.

Content includes:

1. Linear functions, systems of linear functions, linear inequalities and systems of linear inequalities
2. Quadratic functions. Conic sections. Quadratic systems
3. Exponential and logarithmic functions
4. Irrational algebraic functions
5. Higher degree functions
6. Series and sequences
7. Probability
8. Intro to Trigonometry

Grades in this class are weighted as an Honors course—(single weighted)

Algebra 2

Duration: 1 Year
Credits Earned: 1
Open to: grade 11, 12
Prerequisite: Geometry or students that have failed Algebra 2 CP

Description: Algebra 2 is a two-semester course intended to introduce students to the same basic content covered in the Algebra 2 CP course, but at a slower rate. Students will not be permitted to take Advanced Math or Calculus after this course.

Advanced Mathematics

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grades 11, 12
Prerequisite: Algebra 2

Description: Advanced Mathematics is a two-semester college preparatory course in pre-calculus mathematics.

Content includes:

1. Review of linear, quadratic and higher degree functions, their solutions and graphs
2. Complete course of Trigonometry
3. Vectors
4. Polar coordinates and complex numbers
5. Exponential and logarithmic functions
6. Statistics and probability

Grades in this class are weighted as an Honors course—(double weighted)

Advanced Placement Calculus AB

Duration:	1 Year
Credits Earned:	1 Credit
Open to:	Grade 12
Prerequisite:	1. Concurrent or past enrollment and completion of Advanced Math (2 Semesters) 2. Strong motivation and desire to excel in the course

Description: AP Calculus is a yearlong course, which consists of the equivalent of a first semester calculus course at the university level. The course allows students to receive high school credit and, upon the successful completion of the AP exam, college credit at almost all higher learning institutions. Students taking AP Calculus must be strongly motivated and have a thorough knowledge of algebra and geometry. Course topics include: Properties of Functions, Limits, Derivatives, Applications of Derivatives, Integration, Application of Integrals, etc.

Grades in this class are weighted as an Honors course—(double weighted)

SCIENCE DEPARTMENT

Three (3) credits of science are required for graduation

Life Science

Duration:	1 Year
Credits Earned:	1 Credit
Open to:	Grade 9
Prerequisite:	None

Description: Life Science is a course that will introduce students to basic biological principles and scientific inquiry. Topics may include but are not limited to zoology, botany, adaptation of organisms, genetics, and ecology. Emphasis will be on how biology affects students daily as individuals and members of society. Course work will include lab activities, projects, and reports.

Earth Science

Duration:	1 Year
Credits Earned:	1 Credit
Open to:	Grades 9, 10
Prerequisite:	None

Description: Earth Science is the study of the Earth and the processes that form Earth. Students will be introduced to the four categories of Earth science; geology, meteorology, astronomy, and oceanography. Within each major study, students will conduct labs or projects associated with the processes of Earth formation. An emphasis of the environment and how human interactions have affected the environment will be included in this class.

Biology

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grades 9, 10
Prerequisite: None

Description: Students are introduced to the characteristics and classifications of animals and plants. Basic life structure including physiology, reproduction and chemical nature of life is presented. It will cover a wide variety of living organisms beginning with biological lab techniques and the cell and working up to the interaction of life forms in the area of ecology. Major unit areas include ... biological principles, cells, genetics, evolution, microorganisms, plants, invertebrates, human biology, and ecology. The class will include dissections of small vertebrates and a lab to be performed in each chapter area.

Physical Science

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grades 10, 11
Prerequisite: None

Description: This course is an introduction to the physical sciences including basic concepts of chemistry and physics. The purpose of this class is to acquaint the student with the scientific method of discovery, research, and laboratory procedures. The goal is to capture the student's interest in science through engaging experiences, and to allow them the opportunity to explore physical science concepts from hands-on observation and experiences. The content will consist of the study of matter, chemistry, motion, forces, and the forms of energy including heat, light, sound, and electricity.

Chemistry

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grades 10, 11

Prerequisite: Algebra 1 (Can be concurrently enrolled)

Description: In this class, emphasis is placed on how elements combine to form compounds, atomic structure, equation writing, and problem solving. Areas of study will also include metric measurement techniques, properties of matter, energy transformations and conservation, reaction types, gas laws, electron dot configurations, acids and bases, and solutions. Coursework will include laboratory work, projects, and reports.

Anatomy & Physiology

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grade 11, 12
Prerequisite: Biology – A, B, or C average each semester

Description: A detailed examination of biological research techniques, comparative cell and tissue structure in plants and animals, genetics, followed with biochemistry of various living systems. This

course is designed for students who hold an interest in medical careers. The first semester will cover basic biology in more detail than first year biology. The second semester will focus on anatomy and physiology and will include a major dissection paper of a vertebrate animal. The class will study human physiology and organ systems in great detail.

Grades in this class are weighted as an Honors course

Advanced Placement Biology

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grades 12 (Grade 11 with permission)
Prerequisite: Grade of A or B in Biology; Grade of A or B in Chemistry

Description: Advanced Placement Biology is a yearlong course designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. After showing themselves to be qualified on the AP Examination, some students, as college freshmen, are given college credit on their transcript and permitted to undertake upper level courses in biology or register for course for which biology is a prerequisite. The course will involve 12 laboratory exercises that will include the following: Biological chemistry, cell structure and function, energy transformation, molecular genetics, heredity, plants structure and physiology, animal structure and physiology, behavior and ecology. Students are not required to take the AP Exam at the conclusion of the course but the teaching level and speed of the material covered will be geared to those that will take the exam. Students will receive high school credit upon completion of the course.

Grades in this class are weighted as an Honors course.

Physics

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grade 11, 12
Prerequisite: Must have taken or are now taking Algebra 2

Description: The over-all aim is to provide basic understanding of the concepts, theories, and principles of modern physics. The concepts covered include motion, energy, momentum, collisions, magnetism, Newton's Laws, simple machines, gravity, solar system mechanics, electrostatics and electricity.

Grades in this class are weighted as an Honors course.—(double weighted)

SOCIAL STUDIES DEPARTMENT

Two (2) credits required for graduation.

Geography

Duration: 1 semester
Credits Earned: ½ credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: This semester course is an overview of the physical and cultural geography of the world. Students will work on globe and map reading of all the continents. Emphasis is placed upon the relationship between people's cultures and their environments.

World History

Duration: 1 Semester
Credits Earned: ½ credit
Open To: Grades Grades 9, 10, 11, 12
Prerequisite: None

Description: This semester course is a survey of the great events that have shaped the history of mankind. The following topics are covered in this course: the cultures of early humans, early large civilizations, the Roman and Greek periods and empires, the Middle Ages, the Renaissance period, the Enlightenment period, the American Revolution and its effect on democracy, and periods of U.S., French, and British history are studied.

American Government

Duration: 1 Semester
Credits Earned: ½ credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: This semester course covers the topics of: the origins of democracy and the U.S. Constitution, American women in history, the struggle for civil rights and black history, how elections and political parties work in the U.S., and the functioning of the American Presidency, the Congress, and the Federal Court. The comparison of the U.S. government to other types of government in the world is also studied.

U.S. History

Duration: 1 Year
Credits Earned: 1 Credit
Open to: Grade 11
Prerequisite: None

Description: This yearlong course is required for graduation by the state of Illinois. In this course students will also study the U.S. and Illinois Constitutions, and they must pass a test on each of these two documents for graduation. Additional topics to be covered include: the impact of the early explorers on North America, the rise of the thirteen original colonies, the causes and effects of the Revolutionary War, the westward expansion of the U.S. and sectional rivalry between the states, the U.S. Civil War and the problems of Reconstruction after the War, the Indian Wars of the 1800's, the beginning of the Industrial Age in the 1800's, the causes of World Wars I and II, the creation of the United Nations, the post World War II Cold War era, the Holocaust of the 1930's and '40's in Europe, the Viet Nam era of the 1960's, and the historical events of the 1970's to the present time. Information on women, Blacks, Native Americans, and other minorities in U.S. history will also be presented throughout the course of the year.

Contemporary History

Duration: 1 Semester
Credits Earned: ½ credit
Open To: Grades 10, 11, 12
Prerequisite: Credit for or concurrent enrollment in U.S. History

Description: An historical approach at recent events such as Korea, Vietnam, Sudan, Desert Storm, and recent Middle Eastern conflicts with relation to the United States. The class will also examine modern American Foreign Policies and how they have changed over time. The class will acquire weekly *Newsweek* magazines in which we will discuss, and the students will be expected to perform weekly speeches or written reports. Each class period will have designated time to discuss current events in the news.

Sociology

Duration: 1 Semester
Credit Earned: ½ credit
Open To: Grade 11, 12
Prerequisite: None

Description: This semester course will help those students who plan to attend any college. Many college students take Sociology as a social studies elective to meet college graduation requirements, and this semester course will help prepare a student for the future college course. Students will study the behavior of groups of people in the world. Different types of cultural institutions, different types of religions, different types of cultural norms and laws, different cultural expectations for children, etc. will be studied. The rise of urbanization throughout the world will also be studied. Oral presentations and class projects are also required for grades.

AP European History

Duration: 1 year
Credit Earned: 1 credit
Open To: Grade 12
Prerequisite: B+ Overall GPA & Teacher Approval

Description: The goals of the AP European History course are to develop: (1) Understanding of the principal themes (2) ability to analyze historical evidence, and (3) the ability to express that understanding and analysis effectively in writing. Students in this course are expected to demonstrate knowledge of basic chronology and major events and trends from the High Renaissance of approximately 1450 to the present. The broad themes of intellectual-cultural, political-diplomatic and social-economic history form the basis of the course within that chronology.

FOREIGN LANGUAGE DEPARTMENT

Spanish 1

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: Spanish 1 is an introduction to the Spanish language and culture. The student is expected to acquire beginner level proficiency in listening, speaking, reading and writing skills. CD's, DVD's, online practice and workbooks aid in learning grammar, vocabulary and listening skills. Culture is presented in the text and is also supplemented. Much oral practice is done with partners.

Spanish 2

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grades 10, 11, 12
Prerequisite: Spanish 1

Description: Spanish 2 is a continuation of the study of the Spanish language and culture on an intermediate level. CD's, DVD's, online practice and workbooks aid in learning grammar, vocabulary and listening skills. Upon completion of the course, the student is expected to demonstrate audio, oral and written proficiency on an advanced beginner level of proficiency. Much oral practice is done with partners.

Spanish 3

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grades 11, 12
Prerequisite: Spanish 2

Description: Spanish 3 continues the study of the Spanish language, giving the student the opportunity to strengthen command of the written and spoken language. The student is expected to work toward acquiring an intermediate level of oral proficiency. Literature is also introduced.

Grades in this class are weighted as an Honors course.

Spanish 4

Duration: 1 year
Credits Earned: 1 Credit
Open To: Grade 12
Prerequisite: Spanish 3

Description: Spanish 4 continues the study of the Spanish language with special emphasis on literature and oral proficiency. Writing compositions and summaries of magazine and newspaper articles are included.

Grades in this class are weighted as an Honors course.

ART DEPARTMENT

Art 1: Two-Dimensional Design

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: This class includes the survey of art and art history; learning and implementing basic design concepts; drawing; painting; printmaking, and collage. All art projects include written responses: procedural explanations, creative, and/or artist statements.

Art 2: Three Dimensional Design

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: Art 1

Description: This class builds on basic design concepts and includes the survey of art and art history; sculpture; recycled art; installations, and assemblages. All art projects include written responses: procedural explanations, creative, and/or artist statements.

Art 3: Graphic Design

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 10, 11, 12
Prerequisite: Art 1 and 2

Description: This class builds on basic graphic design concepts and includes the survey of graphic design; the creation of handmade art; and the digital creation and manipulation of imagery. All art projects include written responses: procedural explanations, creative, and/or artist statements.

Art 4: Advanced Art Concepts

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 10, 11, 12
Prerequisite: Art 1, 2, and 3

Description: This course builds on principles and elements of design and includes the survey of art in the community and art history. Projects focus on conceptual art and include the student's choice of medium and method. All art projects include written responses: procedural explanations, creative and/or artist statements.

Digital Communication

Duration: 1 Semester
Credits Earned: ½ Credit
Open to: Grades 9 10, 11, 12
Prerequisite: None

Description: Students in this class will be creating digital video productions. Using digital video cameras and DV computers, students will be involved in pre-production, production, and post-production of various video productions. Students will also be exposed to the techniques of planning and creating WebPages. Students will learn how to edit / manipulate digital images for use in WebPage design. (Limited to 10 students.)

Photography

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: Photography is both an artistic and a technical occupation. This class is designed to develop the student's aesthetic and technical abilities by working with design, composition, lighting situations, various types of imagery, photographic processes, presentation methods, and image variation. Students start with a brief history of photography, then learn the basics of the camera, which includes taking and processing photographs taken with a camera they build themselves. The purpose of this project is to show students that it's the image that makes the picture not the quality of the camera, which took it. Next the students learn the chemistry of black and white photography and the procedures needed to expose, and process photographic films and papers. After students have learned these first basic skills they are then exposed to more complex procedures of manipulating their images. (Limited to 10 students.)

BUSINESS DEPARTMENT

Keyboarding

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: Keyboarding is a course planned to develop basic skills in keyboarding techniques for typewriter style keyboards. Students learn position of the keys, correct strokes for typing and numeric symbol locations. Students will learn to edit and format text and paragraphs, change fonts and work with margins and tabs. Students will format documents such as letters, envelopes, memorandums, reports, and tables for personal, educational and business uses. In addition to learning keyboarding format and technique, students have numerous opportunities to improve their speed and accuracy in respect to keyboarding ability.

During the second half of the course, major emphasis is placed on formatting documents, improving proofreading skills, and increasing speed and accuracy. Production of copy that meets business standards is highly stressed.

Software Applications

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: Software Applications is an orientation-level course designed to develop awareness and understanding of application software and equipment used by employees to perform tasks in business, marketing and management. Students will apply problem-solving skills to hands-on, real-life situations using Adobe PageMaker 7.0 and Microsoft Word. Students will explore topics related to

computer concepts, telecommunications and other emerging technologies. Students will also produce newsletters, brochures, pamphlets and other publications using the desktop publishing and word processing software.

Accounting 1

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grades 11, 12
Prerequisite: None

Description: Accounting is a skill level course that is of value to all students pursuing a strong background in business, marketing, and management. This course includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying and maintaining numerical data involved in financial and product control records, keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision-making. Accounting computer applications should be integrated throughout the course where applicable. This course stresses basic initial understanding of the preparation of budgets and financial reports. Also the operation of related business machines and career opportunities in the accounting field will be studied. Processing employee benefits may also be included. Practice sets with business papers may be used to emphasize actual business records management.

Microsoft Office XP I

Duration: 1 Semester
Credits Earned: ½ Credit
Open to: Grades 9, 10, 11, 12
Prerequisite: None

Description: Microsoft Office XP I is a skill-level course that includes the concepts and terminology related to people, equipment and procedures of information processing as well as skill development in the use of information processing equipment. Students will use Microsoft Word to create rough drafts, correct copy, format copy and create new letters and faxes. Students will create, input and update databases and spreadsheets using Microsoft Excel. Students will learn to locate and retrieve information from hard copy and electronic sources, and prepare presentations using Microsoft PowerPoint software.

Students will apply proper grammar, punctuation, spelling and proofreading practices. Accuracy will also be emphasized. Workplace skills as well as communication skills (thinking, listening, composing, revising, editing, and speaking) will be taught and integrated throughout this course.

Information Processing

Duration: 1 Semester
Credits Earned: ½ Credit
Open to: Grades 9, 10, 11, 12
Prerequisite: Microsoft Offices XP 1

Description: Information Processing is a skill-level course that includes the concepts and terminology related to the people, equipment, and procedures for processing information in the

business world. Students will use common office application packages and conduct research on the internet to complete business simulations that will integrate the use of word processors, databases, spreadsheets, publishing, and presentations. Students will create projects from scratch and also edit and improve existing files so that problem solving skills as well as accuracy will be stressed. Students will also develop, create and maintain the school web pages. Workplace skills as well as accuracy will be stressed.

Microsoft Office XP II

Duration: 1 Semester
Credits Earned: ½ Credit
Open to: Grades 9, 10, 11, 12
Prerequisite: Microsoft Office XP I

Description: Microsoft Office XP II is a skill-level course for students who have completed Microsoft Office XP I.

Students will create and update documents, put together slide shows, speaker notes and handouts using Microsoft Office. They will also edit and utilize calculation functions in spreadsheets, integrate graphics, tables, charts, etc. Students will learn to conduct research on the Internet, maintain an appointment calendar using Microsoft Outlook, make travel arrangements and prepare itineraries and expense reports.

Students will apply proper grammar, punctuation, spelling and proofreading skills to documents and reports. Accuracy will be emphasized along with workplace skills and communication skills.

A simulated information processing learning experience will be used to provide students with the experience of working in the environment of an information processing center.

MUSIC DEPARTMENT

Concert Choir

Duration: 1 Year
Credits Earned: ½ Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: Concert Choir meets every day during period 4C. A performance schedule is given to students at the beginning of each semester. All performances are required in order to receive credit for participation in Concert Choir.

Chamber Choir

Duration: 1 Year
Credits Earned: 1 Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: Chamber Choir is offered to those students who wish to explore the study of choral music. The course will be centered around quality music literature. No audition is necessary for this

course. A performance schedule is given to students at the beginning of each semester. All performances are required in order to receive credit for participation in Chamber Choir.

Band

Duration: 1 Year
Credits Earned: ½ Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: Prior Experience or permission of instructor

Description: Full instrumental band meets every day during 4A period. Students are required to participate in two parades, all fall football marching shows (unless otherwise excused), two concerts and one contest performance per school year in order to receive credit for participation in band.

DRIVER EDUCATION DEPARTMENT

(This course is required for graduation)

Driver Education

Duration: 9 weeks
Credits Earned: Credit: ¼ for the semester
Open To: Open to: sophomores or older freshmen
Prerequisite: Age requirement

Description: The first nine weeks of this course is devoted to classroom education. Students must have 30 clock hours of classroom instruction. Therefore, students may only miss five days. More than five days will result in removal and dropped from the class. This includes both excused and unexcused absences. The second nine weeks of the course students complete 6 clock hours of behind-the-wheel instruction during study hall or PE class.

Students who do not pass the classroom portion are not allowed to take the behind –the-wheel portion. Note: State laws require that a student have passed 8 courses in the preceding two semesters in order to take driver education. For older freshmen, we will look at classes passed in 8th grade to determine eligibility for driver education.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

(Three and a half (3-½) credits required for graduation)

PHYSICAL EDUCATION

Duration: 1 Year
Credits Earned: ½ credit per semester
Open to: Grades 9, 10, 11, 12
Prerequisite: None

Description: Curriculum will include team sports, lifetime activities and fitness. The learning of rules and good sportsmanship is emphasized. All students will go through fitness testing each semester. Midland PE uniforms are required and may be purchased in the office. 3 ½ credits of PE are required for graduation, except for waivers as specified in the student handbook and in school board policy. Students are graded on: 1) daily dress & participation 2) cooperation and attitude 3) skills testing 4) written testing.

***PHYSICAL EDUCATION – WEIGHTROOM P.E.
WEIGHT TRAINING/ACCELERATED PHYSICAL EDUCATION***

Duration: 1 Year
Credits Earned: ½ credit per semester
Open to: Grades 9, 10, 11, 12
Prerequisite: None
Class limit: 16 persons

Description: Students will earn the fundamentals of many aspects of weight training. They will learn the proper techniques for lifting and using a variety of different weights. Each student will develop and implement an individual lifting program that they can use beyond their years at Midland High School. The class will focus on the BIGGER, FASTER, STRONGER, workout program that will be provided to each student. All students will be tested in 4 different core lifts – dead lift, bench press, squat, and power clean. Each student will keep a daily log charting individual improvements. In addition, the course will include a variety of cardiovascular activities to maintain and improve fitness levels, including but not limited to – pacer test, one mile run, agility workouts, sprint workouts, endurance workouts, etc.

All students are required to wear Midland PE uniforms that may be purchased at 3 X 1 Imprints located in downtown Lacon or from the high school office. 3 ½ credits of PE are required for graduation, except for waivers as specified in the student handbook and in school board policy. Students are graded on: 1) daily dressing in uniforms 2) cooperation and attitude 3) lifting tests and written tests 4) daily logs. The passage of Title IX legislation in the early 1970's requires co-educational PE activities unless certain contact activities are being taught.

Health Education

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grade 9
Prerequisite: None

Description: Health education is a very important part of any student's curriculum. Health is a one-semester class that is required for all students to graduate. In this class, students will cover topics such as: health, body systems, growth and development, personal health, mental and emotional health, tobacco, alcohol, and drugs. Health education gives students the knowledge required to care for their bodies and live a healthful life.

FAMILY AND CONSUMER SCIENCES

Intro to Family and Consumer Sciences

Duration: 1st Semester
Credit earned: ½ Credit
Open to: Grades 9, 10
Prerequisite: None- Sewing supplies to be furnished by the student

Description: The course is designed to introduce students to the experiences and opportunities open in the field of family and consumer sciences. Students are given the opportunity to learn about areas such as food preparation, nutrition, and clothing construction. In addition, career opportunities in each of the above areas will be explored. This course serves as a brief overview of some of the coursed in the family consumer science program.

Fashion Merchandising:

Duration: 1st Semester
Credit earned: ½ Credit
Open to: Grades 9, 10, 11, 12
Prerequisite: None – sewing supplies to be furnished by the student

Description: Fashion Merchandising combines the study of fashion and careers related to fashion with development of skills and construction techniques. The course prepares students to make good, informed decisions when buying and caring for clothes. Students will explore basic sewing construction skills along with buying and selling skills. The students will learn how to advertise and promote their products.

Commercial Clothing:

Duration: 2nd Semester
Credit Earned: ½ Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None- sewing supplies to be furnished by the student

Description: This course is designed to introduce students to the various types of techniques and equipment used is designing and constructing apparel. Some skills students will learn include: how to operate a sewing machine, basic stitching techniques, how to apply buttons, and explore the area of designing an article of clothing.

Child Development:

Duration: 2nd Semester
Credit Earned: ½ Credit
Open To: Grades 9, 10
Prerequisite: None

Description: This course is designed to introduce student to the understanding of the intellectual, physical, social, and emotional development of children from conception through adolescence. The students will learn the basic information on child development, safety and nutrition for children. The students will also explore related careers that deal with children.

Foods 1

Duration: 1st Semester
Credit Earned: 1 Credit
Open To: Grades 10, 11, 12
Prerequisite: None

Description: This course includes classroom and laboratory experiences needed to develop knowledge and understanding of food principles and nutrition as they apply to people of all ages. Emphasis will be given to basic food preparation principles and techniques, an understanding of the food selection process, consumer decision making including various shopping skills as well as a study of various careers in food services.

Students will develop skills in using equipment to produce nutritious and attractively served meals and snacks. Food buying, safety, and sanitation will be stressed. The course will include a study of the nutrients and their relationship to health, energy, and appearance, and management is stressed throughout the course.

Foods 2:

Duration: 2nd Semester
Credit Earned: 1 Credit
Open To: Grades 11, 12
Prerequisite: Foods 1

Description: This course is designed for those students interested in pursuing career opportunities in the food service industry. Experience provided will improve job-related competencies including experiences with commercial equipment, preparing food quantity and serving food items. Sanitation and safety are emphasized throughout the course.

Consumer Education:

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 11, 12
Prerequisite: None

Description: Students learn how to get the most of their money purchases and how to avoid the pitfalls of consumer contracts and frauds. Real- life projects are offered during the course with problem –solving techniques concerning money matters and purchasing goods and services. Students will study how the American economic system works and the problems involved with the U.S. system.

Parenting:

Duration: 1st Semester
Credits Earned: ½ Credit
Open To: Grades 11, 12
Prerequisite: None

Description: This course helps students understand the responsibilities, satisfactions, and stresses of parenthood. Students will examine several types of parenting situations. Students will learn why it is important to be ready for parenthood by looking at the following duty areas of parenthood; managing and organizing parenting by applying decision- making and goal setting skills. The students will learn all the changes that come with parenthood.

Adult Living:

Duration: 2nd Semester (Offered every even # years)
Credits Earned: ½ Credit

Open To: Grades 11, 12
Prerequisite: None

Description: This course is designed to provide learning experiences which shows the students the responsibility that they will have to face in every day situations from home, community, and place of employment. The students will focus on the following topics: values, goals, decision making, dating and relationships, management of money and resources, living own their own, basic cooking skills, basic sewing skills, and basic parenting skills. The students will look at different careers to help them find out what is right career for their skills.

Interior Design:

Duration: 2nd Semester (Offered every odd # years)
Credits Earned: ½ Credit
Open To: Grades 10, 11, 12
Prerequisite: None

Description: This course is designed for the students to study the principles and elements of design. The students will learn the steps of design their own room in a model doll house. It provides students the opportunity to practice design skills and teaches essential construction information. The students

will examine Interior Furnishing from couches to curtains. The students will look at different careers that deal with Interior Design.

AGRICULTURE

Introduction to the Agriculture Industry (offered in the fall)

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: This introductory course provides an opportunity for students to learn how the agriculture industry is organized; its major components; the economic influence of agriculture at state, national, and international levels; and the scope and types of job opportunities in the agriculture industry. Basic concepts in agribusiness management, youth leadership, communications, agriculture technology, and agriculture science are included. Leadership and evaluation skills will be developed through hands-on learning in this class. FFA membership and participation in FFA activities will be encouraged.

Introduction to Agriculture Mechanics (offered in the spring)

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: This course is designed to introduce students to a variety of agriculture mechanics areas useful in production agriculture and agribusiness equipment and facilities. Units covered

include electricity, service and repair of small engines, stick and MIG welding, gas metal work, and carpentry. FFA activities will be encouraged.

Introduction to Horticulture (offered in the spring)

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 9, 10, 11, 12
Prerequisite: None

Description: This course is designed to develop knowledge and skills in the following areas: using soil and other plant growing media, identifying horticultural plants, propagating plants, basics of growing horticultural plants, and maintaining horticultural equipment and machinery. Improving workplace skills will be a focus.

Biological Science Applications in Agriculture BSAA - Plant Science (offered in the fall)

Duration: 1 Semester
Credits Earned: ½ Credit (May be used for science credit)
Open To: Grades 10, 11, 12
Prerequisite: Biology, Intro to Ag Industry, or Intro to Horticulture

Description: BSAA - Plant Science is a course designed to reinforce and extend student's understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Students will examine major phases in plant growth and management in agriculture and the specific biological concepts that will govern management decisions. The course will deepen student's understanding of science as content and as a process through the use of numerous laboratory exercises and experiments. Sample topics include: initiating plant growth, photosynthesis, plant respiration, growth and development of plants, and plant growth regulation.

Biological Science Applications in Agriculture BSAA - Animal Science (offered in the spring)

Duration: 1 Semester
Credits Earned: ½ Credit (May be used for science credit)
Open To: Grades 10, 11, 12
Prerequisite: Biology, Intro to Ag Industry, or Animal Science

Description: BSAA - Animal Science is designed the same as BSAA - Plant Science, but with animal units in place of plant units. Sample topics included: (1) growth and development of animals – embryology, nutrition, and immunity systems, (2) processing animal products – preservation, fermentation, and pasteurization, (3) animal reproduction – embryo technology.

Animal Science (offered in the fall)

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 10, 11, 12
Prerequisite: None

Description: This course is designed to help students understand the basic concepts of animal science and learn about the animal science industry. Animal science units covered include swine, beef, sheep, horse, dairy, and poultry industries. Units in genetics, anatomy, and animal physiology are also included. Livestock, poultry, and meats judging concepts will also be learned.

Natural Resources (offered in the fall)

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 10, 11, 12
Prerequisite: None

Description: This course is designed to introduce students to the many areas of natural resources. Topics covered in the course include water conservation, soil management, fish & wildlife resources, air quality, and outdoor recreation opportunities. In addition, conservation history and the changes in natural resource management will be covered.

Agriculture Sales & Marketing (offered in the fall)

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 10, 11, 12
Prerequisite: None

Description: This course will develop student understanding of the principles of agriculture marketing and sales management. Instructional units focus on labor management, salesmanship techniques, processing and marketing of agriculture products, and the organization and management of agribusiness.

Agribusiness Management (offered in the spring)

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 11, 12
Prerequisite: 4 semester of Ag. credit

Description: This course will develop students' understanding of the agricultural industry relating to the United States and World marketplace. Instructional units include: marketing and trading of agricultural products, international agriculture, imports and exports, agricultural law, taxes, governmental regulations and policies, and advanced computerized record keeping. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Post-secondary education will be explored at agricultural colleges and universities. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. Successful completion of this course will satisfy the Consumer Education course requirement.

Advanced Agriculture Mechanics (offered in the spring)

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 10, 11, 12

Prerequisite: **Intro to Ag Mechanics**

Description: This course will offer students advanced instruction involving the service and maintenance of agribusiness equipment and facilities. Units of instruction will include advanced welding and metal work, maintaining buildings, equipment design and fabrication, equipment restoration, surveying, and advanced concepts in electricity. A main focus in the course will be a major equipment repair or restoration project.

Physical Science Applications in Agriculture (PSAA) (offered in the fall)

Duration: **1 Semester**
Credits Earned: **½ Credit**
Open To: **Grades 10, 11, 12**
Prerequisite: **1 year of high school science & math**

Description: This course reinforces and extends student's understanding of science and the scientific process by associating science principles and concepts with relevant applications to agriculture. Numerous laboratory exercises and experiments will be conducted throughout the course. Sample units of study include: (1) agriculture power systems – energy, force, work, torque, (2) environmental systems – infiltration, percolation, turbidity, universal soil loss.

Horticulture Production & Management (offered in the spring)

Duration: **1 Semester**
Credits Earned: **½ Credit**
Open To: **Grades 10, 11, 12**
Prerequisite: **Intro to Horticulture**

Description: This course offers instruction in producing and marketing horticulture plants and services. Units of study include plant identification, culture of greenhouse crops, nursery production & management, care & handling of cut flowers, and fruit & vegetable production. Agribusiness units covered include horticulture product pricing, advertising, and sales of horticulture products.

Landscaping & Turf Management I (offered in the fall)

Duration: **1 Semester**
Credits Earned: **½ Credit**
Open To: **Grades 10, 11, 12**
Prerequisite: **None**

Description: This course focuses on the landscape, nursery, and turf segments of the horticulture industry. Units of study include identifying landscape plants, introduction to the nursery industry, turf grass production, managing a nursery business, and principles of landscape design. This course is required for advanced study in designing landscapes in Landscaping & Turf Management II.

Landscaping & Turf Management II (offered in the spring)

Duration: **1 Semester**
Credits Earned: **½ Credit**
Open To: **Grades 10, 11, 12**
Prerequisite: **Landscaping & Turf Management 1**

Description: This advanced course focuses on landscape design techniques and construction. Units of instruction include advanced landscaped design, installation of landscape plants & structures, and maintenance of existing landscapes. Improvement of workplace skills will also be a focus.

SAE – Supervised Agriculture Experience (offered in fall and spring)

Duration: 1 Semester
Credits Earned: ½ Credit
Open To: Grades 10, 11, 12
Prerequisite: Intro to Ag & 6 months of Records

Description: This course is based on student abilities and home/work opportunities. Records will be kept in official SAE record books. The student must show the product of the work experience program and the record book at the Section Fair in the summer or fall. The student must also be visited by the agricultural instructor during the time period for which the credit is earned and a record book must be turned in at the end of each 9 week grading period for evaluation before credit is given. Students may earn up to 3 credits for this course during high school.

INTERRELATED COOPERATIVE EDUCATION (Co-Op)

Duration: 1 Year
Credits Earned: 1 Credit / Semester
Open To: Grade 12
Prerequisite: None

Description: Interrelated Cooperative Education is a capstone course designed to assist students in the development of effective workplace skills and attitudes through practical, advanced instruction in school and on the job through cooperative education. Approximately half of the school day is spent in the classroom and the other half is spent on-the-job training. This training is supervised by a designated training sponsor and coordinated by the teacher.

Classroom instruction focuses on providing students with career planning and job survival skills. Units of instruction will involve employability skills, job-seeking skills, personal development, human relationships, consumer awareness skills, and other job-related instruction. A student must apply for Co-Op at the end of his/her junior year.

A student may establish an Independent Supervised Cooperative Vocational Classroom experience if all other scheduling avenues have been exhausted and he/she meets the academic requirements. There is a limit to two students per academic school year and it is left to the discretion of the Co-Op director whether final acceptance into the program is granted.*

*In order to be accepted into the Independent Supervised Cooperative Vocational Classroom experience, a student must have an overall GPA of 3.0, meet with the Co-Op director and the guidance counselor to establish necessity, and have parental permission. The student must sign a contract along with signatures of the parent, the Co-Op director and the school principal. Students must maintain passing grades or may be dropped from the program and placed in study hall. If this occurs, all credit will be lost. Evaluation of eligibility will be on a bi-quarterly (every four weeks) basis.

PCCS (Partners for College & Career Success) /WORK-BASED LEARNING COURSES/EXTERNAL CAMPUS PROGRAMS

The following is a list of regional programs open to most high school students in the greater Peoria area. They all involve leaving the traditional high school classroom for part of the day and traveling somewhere for a specialized program. The student and family must provide their own transportation for these classes. Some courses provide dual credits (college as well as high school credits) toward graduation, and some provide a paid experience and some do not. Some involve future college benefits such as tuition. The application deadline for these programs is March 1st of the current school year for the following school year. **After completing any of these programs a high school student will have a definite knowledge of careers in this technical specialty.**

To be eligible for any of these programs, a student must have a cumulative GPA of 2.875 or higher out of 5.0, have no major disciplinary referrals in the dean's office, and have reliable transportation to the class. Applications are available in the guidance office. All of these programs are Tech Prep programs. They are designed to help a high school student ease the transition between high school and future college technical training.

Automotive Fundamentals

The Automotive Fundamentals program provides students with instruction in shop safety, automotive electronics, brake systems, suspension and steering, and engine performance. Students who successfully complete the program will be prepared for entry-level positions in the automotive industry of continued education in related programs. Students may participate for up to 2 years and earn up to 6 credit hours per semester.

Biotechnical Engineering

The biotechnical engineering curriculum combines biology, engineering, computer science, and problem-solving skills to tackle problems of a biological and/or technical nature. This course introduces students to the diverse fields of biotechnology, bioengineering, biomedicine, and biomolecular engineering. Lessons engage students in hands-on engineering design problems related to biomechanics, cardiovascular engineering, genetic engineering, agricultural engineering, tissue engineering, biomedical devices, forensics, and bio-ethics.

Cisco Networking Academy™

The Cisco Networking Academy program is a comprehensive e-learning program, which provides students with the Internet technology skills essential in a global economy. The Networking Academy program delivers Web-based content, online assessments, student performance tracking, hands-on labs, instructor training, and preparation for industry standard certifications. Students may participate for up to 2 years.

Construction Industry

This competency-based program exposes students to a variety of high-skill, high-wage construction industry careers through specialized hands-on training at various union work sites and apprenticeship schools. Special attention is placed on safety and construction career options. Students may participate for one year in this program.

Cosmetology

Cosmetology is a state licensed program that specializes in training students in all phases of the industry. This includes training in hair care, skin care and nail technology. Instruction is provided at a licensed cosmetology school in partnership with area high schools. This course is designed to provide the knowledge and skills needed to be proficient in the beauty industry. This two-year program provides students with hands on training under the supervision of licensed cosmetology instructors. Upon completion of the required 1500 hours, the student will take a state board exam.

Criminal Justice

The Criminal Justice program offers an excellent opportunity for students to explore careers in corporate security, loss prevention, risk management and others. Students selected for this program will receive introductory training in the Criminal Justice System as well as Industrial & Business Security. Successful participants will be “job ready” at the completion of this program by fulfilling licensing standards as a security guard within the State of Illinois. This program is 1 semester in length with students earning 6 credit hours upon successful completion.

Early Childhood Education

The Early Childhood Education program is designed to provide students with instruction in early childhood education through lecture, discussion, reflection, and hands-on experience. Students in the program will study the development of children, importance of play in the growth of young children, and how teachers make connections to support the continued growth and development of children. In addition to classroom instruction, students will participate in an internship in pre-kindergarten classrooms at Valeska Hinton Early Childhood Education Center, Pre-K STAR classrooms, and other childcare centers throughout the community to apply classroom instruction to real life experiences. Students may participate for 1 year.

EMT-Basic

The Emergency Medical Technician-Basic program is designed to prepare students to provide care to victims of medical and traumatic emergencies in and out of hospital settings. Students who complete this program will be eligible for licensure through the Illinois Department of Public Health, as well as certification through the National Registry of Emergency Medical Technicians. Students may participate 1 semester (Spring semester) and earn up to 6.5 credit hours.

Graphic Design

The Graphic Design program provides a foundation in practices, techniques, processes, terminology, theory and aesthetics of graphic design through hands-on projects and career exploration activities. Instruction, demonstration and practical skills-development employ industry-standard software including Adobe Photoshop, Adobe PageMaker, QuarkXPress, Adobe Illustrator, Kai's PowerShow, and others. Students participate for 1 semester and earn 3 hours of credit.

Health Occupations

Participants in the Health Occupations program will gain a knowledge-based understanding of a wide variety of health care careers through classroom instruction, lab activities, job shadowing, and clinical experiences. Upon successful completion, students will be eligible to sit for the State of Illinois Nursing Assistant exam and work as a CNA in any health care setting. This program is 1 semester in length. Students will earn 7.5 credit hours upon completion.

HOSPITALITY AND TOURISM

Students enrolled in the Hospitality and Tourism work-based learning program will receive training through classroom instruction and hands-on activities in many facets of the industry including lodging, food and banquet services, travel, tourism, and sports and entertainment. Training locations and sponsors will include a variety of established business locations including members of the Heart of Illinois Hospitality Association. Students may participate for 1 year.

PROJECT LEAD THE WAY

Project Lead the Way is a nationally recognized pre-engineering curriculum designed to introduce students to engineering principles, concepts, and real-world problems through classroom instruction, project-based activities, presentations, tours, and job shadowing. PLTW courses help prepare students for the scope, rigor, and discipline of engineering and engineering technology prior to entering a four year college program.

Students may participate up to two years, earning 1-4 credit hours per semester.

Caterpillar Student Trainee Program – To be eligible for this program, a student must have a cumulative GPA of 3.5 or higher out of 5.0. Students in this program usually are seniors at Midland High School. (On rare occasions a junior is chosen for this program.) The students must agree to work full-time for Caterpillar in the summer between the junior and senior years of high school and then 15-20 hours per week during the school year. Students may work in the morning or afternoons, depending on their assignment at Caterpillar. Assignments are usually at the Caterpillar Mossville business unit, but students could be placed in East Peoria or downtown Peoria. This is a paid program, and if employer evaluations are good, it may be continued if the student goes to Illinois Central College for higher education. Caterpillar is looking for students interested in computer software (Microsoft Word, Excel, Access, Powerpoint) or computer-aided drafting and design (Auto-CAD) or accounting. Applicants will be given a basic keyboarding test because all employees are expected to know basic computer applications and keyboarding. Students will receive 2 high school credits for co-operative education for this program.

This course is on hiatus for the school year of 2009-2010.

USDLC CLASSES

These courses are offered primarily on-line. The students need to have very good study habits to enroll in these courses. There will be a fee charged for each semester course. Courses offered include: Latin, German, French, Music History, and Psychology. Students should contact the Guidance Counselor for more information.

SPECIAL EDUCATION DEPARTMENT

(These courses are available to students with Individualized Education Plans)

Students with Individual Education Plans are responsible for meeting the same requirements for graduation as all other students unless otherwise stated in their IEP plan.

Lifeskills 1, 2, 3, and 4

Duration: 1 Year
Credits Earned: 1 credit
Open to: Grades 9, 10, 11, 12
Prerequisite: None

Description: This class is designed to accommodate the different learning styles and circumstances of students. Students will receive life skills training in cooking, house maintenance, personal hygiene, and daily living skills. Additionally, students will learn job search and other related employment skills.

Students will participate in many community experiences, where they will have the opportunity to learn about money management, shopping, dining skills, proper etiquette, etc. Students will also have a chance to visit banks, grocery stores, department stores, laundry facilities, and employment services.

This class will help prepare students for a successful independent lif

Math Curriculum Flow Chart

*Students need 3 years of math.

**If a class is failed 1st semester, the student will be dropped from the class until the following year.

