

TO THE STUDENT AND PARENTS

This Curriculum Guide should provide most of the information you need to plan a successful and rewarding high school experience. It can also assist in choosing electives most appropriate for your post-high school plans. Your counselor can expand further on opportunities after high school and make suggestions appropriate for your interests and abilities. We stress the importance of seeking help from the counselors whenever a question comes to you.

Our primary concern is that your experience at Pontiac Township High School be worthwhile. We urge you to seek whatever help you need in planning your program; your first step toward a successful four-year experience rests with your course choices and four-year plan. The course listings and descriptions that follow should help to that end.

PHILOSOPHY

The public school system is based on and functions under the mandate of the State Constitution which places upon the State Superintendent of Education and the Board of Education the responsibility of providing a good public school education.

Within the limits placed upon the Board of Education, the administration, and the staff by the resources of the district, Pontiac Township High School seeks to provide the best possible educational opportunity for each individual who wishes to avail himself of this opportunity.

The ultimate aim is to see each individual move toward his potential intellectual, physical, social, and cultural capabilities to help him develop morally and ethically and to prepare him for his responsibilities as a citizen of our democratic society. It is also a goal for the school district to provide a curriculum which offers students a variety of alternatives when preparing for the future.

In attempting to meet these goals, it is realized that differences exist in individual capacities and interests--physical, intellectual, emotional, and socio-economic--which must be considered. To reflect the nature of the community, programs that address the needs of those students who plan to continue their education and those who plan to enter the working community should be provided.

Finally, while education is recognized as a right in our society, it must also be looked upon as a privilege and must be ultimately acquired by the striving of the individual, utilizing the staff and facilities provided by this community. In accordance with each individual's efforts is the integral education and social interaction between the school and community populations.

PTHS GOALS

I. SCHOOL ENVIRONMENT

1. To provide a qualified staff competent in instruction and aware of research, development, and innovation in the profession, recognizing the student as an individual.
2. To provide a safe, orderly, disciplined environment conducive to a positive learning atmosphere.
3. To provide and instill respect for the PTHS physical plant and staff.
4. To promote open communication among administrators, faculty, families, and students to enhance the educational program.
5. To encourage respect for opinions that may differ from others.
6. To encourage a continual review of the comprehensive educational program.
7. To develop and promote a mature attitude and good sportsmanship in athletics, academics, and all other endeavors.

II. INTELLECTUAL DEVELOPMENT

1. To challenge the student to develop his intellect as effectively as natural endowment will allow.
2. To develop and interrelate skills in reading, writing, speaking, and listening; and in computation, logical reasoning, deduction, and problem solving.
3. To develop and use the skills of creative, critical, and analytical thought.
4. To encourage efficient study and time management skills which are productive in completing projects and achieving goals.
5. To foster an appreciation for learning and pride in work.
6. To provide appropriate recognition of achievement.
7. To provide programs to explore a variety of career opportunities.
8. To provide guidance and to disseminate pertinent information to both college-bound and non-college-bound students.
9. To provide educational opportunities appropriate for those beyond high school age.
10. To promote horizontal articulation of all academic courses within the school and articulation regarding curriculum, programs, etc. with feeder schools.

III. PERSONAL DEVELOPMENT

1. To foster interpersonal relationship skills.
2. To help the student develop individual and cooperative problem-solving skills, both in academic and personal areas by providing guidance and counseling to students on an individual basis.
3. To encourage the student to develop a well-defined, positive set of values.
4. To provide the opportunity for each student to discover and develop his own particular talents in order to realize his own self-worth and social importance.
5. To foster a positive attitude toward continued learning and self-improvement as a life-long pursuit.
6. To encourage proper health and safety practices in the school, the home, and the community.
7. To provide experiences in worthwhile leisure time interests and activities now and in the future.
8. To encourage appropriate self-discipline and behavior for lifetime responsibilities.

IV. SCHOOL AND COMMUNITY CITIZENSHIP

1. To provide opportunities to develop desirable attitudes toward citizenship and responsible behavior.
2. To develop an appreciation and understanding of all cultures.
3. To provide a wide range of exploratory and socializing experiences and activities for all students.
4. To understand and practice democratic ideas and ideals.
5. To foster acceptance of each individual's capabilities regardless of his limitations.

GRADUATION REQUIREMENTS

Credits required for graduation from PTHS are 26

The following are required credits/units that must be earned to qualify for graduation.

- 1 Unit.....American History
- 4 Units.....English
- 3 Units.....Mathematics
- 2 Units.....Science
- 4 Units.....Physical Education (including 1/4 unit in Driver Ed and 1/2 unit in Health) *1
- 1/2 Unit.....Social Studies *2
- 1/2 Unit.....Civics *3
- 1/2 Unit.....Consumer Education *4
- 10 Units.....Music, Art, Foreign Language, or Career Education *5

The above list gives a total of 16 1/2 credits/units. The remaining credits needed for graduation will come from elective courses.

- *1 Students are required to be enrolled in physical education (health and driver education included) every semester that they are enrolled in school unless exempted by Board of Education Policy. Students not physically capable of participating in P.E. classes must have a physician's written recommendation.
- *2 The additional 1/2 unit of credit in social studies may be taken from the following: Ancient History, Modern History, European Geography, World Regional Geography, Illinois Studies, Psychology, Sociology, Economics, or International Relations.
- *3 All Constitution tests must be passed as administered by the Social Studies Department.
- *4 Consumer Education, Consumer Management, Economics, Ag Bus Management, or Interrelated Cooperative Education may be taken to meet the consumer education requirement. Students may also elect to take the Consumer Education Proficiency exam. Passing this exam will fulfill the Consumer Education requirement; however, no credit is granted toward graduation for the Consumer Education Proficiency.
- *5 One (1) unit or some combination equaling one unit.

NORMAL CLASS LOAD

Six academic subjects and physical education are considered a normal load for high school students. Administrative approval must be granted for a student to take an overload of classes.

AUDITING COURSES

A student auditing a class will automatically receive a grade of (NC). Therefore, the student will not receive credit for the audited class nor will his GPA or class rank be affected.

GRADE POINT AVERAGE (GPA)

The grade point average is calculated by multiplying the total semester hours attempted by the total number of grade points earned for all classes. This figure represents the Quality Point Value. The Quality Points earned are then divided by semester credits attempted; the result is your GPA. All classes are calculated in the Grade Point Average.

The grade points assigned to the letter grades for the purpose of computing grade point average are as follows:
A=4 B=3 C=2 D=1 F=0 I=0

Cumulative GPA is calculated at the end of each semester.

INTERPRETATION OF LETTER GRADES

The following standards are used in reporting grades:

A	(Superior)	92-100
B	(Above Average)	83-91
C	(Average)	74-82
D	(Below Average)	65-73
F	(Failure)	Below 65

An "I" is used at any marking period to indicate that the student has not completed the required work. An incomplete becomes a failure automatically unless the work is completed during the following two weeks of school or unless the time is extended by the teacher involved. It is the student's responsibility to check with the teacher for all necessary makeup work.

SCHOLASTIC HONOR ROLL

Pontiac Township High School believes it is desirable to give recognition to all students who maintain a consistently high level of achievement in the subject matter field. This recognition is provided by publishing a list of Honor Roll students in The Chief and in our community newspaper. The requirement for students to be listed on the Honor Roll is a 3.00 - 3.74, B average. Students whose GPA is a 3.75 or above are designated by High Honors. Students who earn A's in all courses including physical education are placed on the Straight A honor roll. Students receiving a D or F in any class are not eligible for Honor Roll, regardless of GPA.

ADVANCED PLACEMENT COURSE (AP)

AP is a program of college-level courses and exams for secondary school students. Over 90 percent of the colleges that most AP candidates have attended give credit and/or advanced placement to students whose AP Examination grades are considered acceptable. Advantages of taking AP classes are students may earn college credit without leaving home, can pursue advanced academic work and stay among their peers.

Student's transcript is marked to identify AP classes.

HONORS COURSES

Honors courses are designed for students with high ability and strong academic motivation. Placement in an honors course is based on the following criteria:

1. Standardized test scores
2. Grade Point Average
3. Teacher recommendation
4. Parent approval

There are several advantages of being in an honors class:

1. Provides greater academic challenges.
2. Students in honors classes generally score better on ACT/SAT tests.
3. Students are prepared for similar courses in college.
4. Successful completion of an honors class is identified on a student's transcript for college admission purposes.

INDEPENDENT STUDY

The following guidelines should govern the approval of an Independent Study course:

1. The class must be part of the regular curriculum of PTHS and not be offered or available during the semester of the Independent Study.
2. An Independent Study class will meet at a mutually agreed upon time: before or after school, or during the teacher's preparation period.
3. Class time, work, and tests must be equivalent to other semester courses. (75 hours)
4. A student must have completed 9th grade before requesting an Independent Study course.
5. No more than 8.0 credits may be earned in a regular academic year.
6. Requests to offer or participate in Independent Study courses will be made per semester.
7. No teacher may have more than one Independent Study assignment per semester.

OTHER CREDIT COURSEWORK

A student may earn up to two (2) credits toward high school graduation from any approved and accredited junior college, an approved correspondence program, the Illinois Virtual High School, and/or other accredited high school programs. This coursework is in addition to, not in place of, the five (5) academic subjects in the student's regular school day. Prior to enrolling, students must have administration/counselor approval. Graduation credit will be awarded upon successful completion of these courses; however, no GPA credit will be calculated. Payment of any tuition/cost for this coursework is the responsibility of the student.

Students taking a course through an approved junior college must successfully complete at least a two (2) semester hour course to receive a half (1/2) credit towards fulfilling their high school graduation requirements.

INTER-RELATED COOPERATIVE EDUCATION (I.C.E.)

The inter-related cooperative program combines classroom instruction and job training. Students receive 3 credits per year for participation in the I.C.E. program and must work a minimum of 15 hours per week. See your counselor for more specific information. Criteria for student selection include the following:

- tentative career objective
- good attendance record
- ability to get along with others
- desire to participate
- willingness to accept responsibility
- 16 years of age with own transportation

FOREIGN EXCHANGE PROGRAM

Students who elect to spend one or more semesters as a foreign exchange student will be awarded credit for courses taken while in attendance at foreign schools during the exchange program with the following procedure:

1. Credit will be awarded for courses which meet the equivalent time requirements of courses at P.T.H.S. (1/2 credit for semester courses meeting for 18 weeks, 5 days per week, for 50 minutes per day). Any variation from the equivalent time requirement will be reviewed by administrative and guidance personnel and credit (if any) may be awarded on the basis of any additional documentation received from the foreign school.
 2. The student transcript will reflect any credit earned at a foreign school but will not reflect a letter grade.
 3. The student Grade Point Average and Class Rank will be computed without the inclusion of courses taken at a foreign school while an exchange student. The student Grade Point Average and Class Rank will be based on work completed at Pontiac Township High School.
 4. All P.T.H.S. course (subject) requirements must be successfully completed by the student in order to be eligible for graduation from Pontiac Township High School. The student pursuing a foreign exchange program must meet with his/her counselor, in advance, to plan his/her coursework relative to meeting the above requirements.
 5. The final student transcript will reflect the above information contained in sections one through four of this policy.
- Adopted: February 8, 1988

PHYSICAL EDUCATION EXEMPTION

Section 27-6 of the Illinois School Code allows students to be granted exemptions from physical education for any of the following reasons:

1. Upper class students participating in interscholastic athletics or cheerleading as certified by the appropriate district personnel.
2. The student provides written evidence from an institution of higher education that a specific course not included in existing state or local school minimum graduation standards is required for admission. School district staff must verify that the student's present and proposed schedule will not permit completion of the needed course.
3. The student lacks sufficient course credit or one or more courses required by state or Pontiac Twp. High School District 90 policies for graduation. Students who have failed a required course, transferred into the district with deficient credits, or who lack credits due to other causes will be eligible to apply for this exemption.
4. The student is a participant in marching band.

Each request for exemption from physical education instruction is to be verified and eligibility determined on a case-by-case basis by school district staff. Every student excused from physical education course requirements will be provided with a schedule which meets minimum school day requirements.

Approval of exemption may be for one or two semesters if circumstances warrant. See your counselor for more information.

SCHEDULE CHANGES

A schedule change may occur when a student requests to change from one course to another during specific time frames during the school year. Every effort is made to schedule students into their requested courses. The guidance department cannot honor requests for specific course sections, teachers, or lunch periods. Students must make any necessary course changes during the following times:

1. Courses for the next school year can be adjusted as needed for one week after course verifications are sent home. Specific dates will be listed on the verification sheet.
 2. Courses for the next school year can be adjusted as needed before registration upon the return of the guidance staff. This one week window occurs sometime between the 1st and 2nd week of August. Schedule changes will not be made during registration to ensure course fees are accurate.
 3. Due to sections size numbers, once school has started schedule changes need to be kept to a minimum, but allowed during the first five days of school with parental approval on schedule change form. Again, the guidance department cannot honor requests for specific course sections, teachers, or lunch periods.
 4. After the first five days of school, student/parent requested schedule changes will no longer occur for 1st semester and any such request will fall under the "withdrawing from a class" policy.
 5. Changes that need to be made for 2nd semester will occur upon return from Thanksgiving break through final exams with parental approval on schedule change form.
 6. Due to sections size numbers, once second semester has started schedule changes need to be kept to a minimum, but allowed during the first five days of 2nd semester with parental approval on schedule change form. Again, the guidance department cannot honor requests for specific course sections, teachers, or lunch periods.
- If a student wishes to change Marching Band or any LACC class on his/her schedule, the band instructor or LACC office will also need to sign the schedule change form once school has started in conjunction with the parent. (See #3, 5, and 6 above)

WITHDRAWING FROM A CLASS

The following procedure for withdrawing a student from a class will be followed when all efforts have been exhausted to work out an agreeable solution to keep the student in the class:

1. A student requests permission to withdraw from a class through their assigned counselor.
2. Withdrawal must be approved by the administration.
3. If request is approved prior to the first or third quarterly progress reports the students' transcript will be marked "WX," indicating that the class was attempted but not completed. If the request to withdraw from a class is made after the first or third quarterly progress reports the students' transcript will be marked "WF," indicating a withdrawal with a failing grade. "WX" has no impact on a students' GPA. "WF" will negatively impact the students' GPA.

If a student is unable to continue a course because of a medical problem or other extenuating circumstances, the student may request to withdraw from the class without any penalty (WX) with the approval of the administration and with the recommendation of a physician.

Students may be dropped from a class with a WF, after parent contact has been made, if the student's behavior is interfering with teacher instruction and the learning of other students.

**COURSES OF STUDY
REQUIRED AND ELECTIVE**

FRESHMAN REQUIRED

English I or Rhet I (H)
General Science or Biology
Concepts in Algebra or Algebra I or Geometry
Global Studies (1)
Physical Ed

FRESHMAN ELECTIVES

YEAR LONG COURSES

Intro to Agriculture
Art I
Band
Chorus
Spanish I
Industrial Tech

SEMESTER COURSES

Computer App (1/2)
Family/Career Rel (1/2)
Textiles & Design I (1/2)
Foods I (1/2)
World Geography (1/2)
Illinois Studies (1/2)
Comp Programming (1/2)

SOPHOMORE REQUIRED

English II or Rhet II (H)
Mathematics
Science
Physical Ed (1/4)
Driver Ed (1/4) or when age appropriate
Health (1/2)

SOPHOMORE ELECTIVES

YEAR LONG COURSES

Agricultural Science
Bio Sci Application in Ag
Art II
Spanish II
Algebra II
Alg II/Trig
Geometry
Plane Geometry
Music Theory I
Chemistry
Earth Science
Accounting I

SEMESTER COURSES

Basic Auto Main. (1/2)
Small Engine Repair(1/2)
Beginning Welding (1/2)
Woods I (1/2)
Woods II (1/2)
Consumer Ed (1/2)
Adv Computer Ap (1/2)
Web Design I (1/2)
Web Design II (1/2)
Child Development (1/2)
Textiles & Design II (1/2)
Foods II (1/2)
Drafting I (1/2)
Drafting II (1/2)

PREREQUISITES

Prerequisites must be successfully completed with a passing grade. In the case of a two semester sequence, students who fail the first semester and pass the second semester may enroll concurrently in the next class in the sequence and the first semester of the prerequisite class

JUNIOR REQUIRED

English III or Rhet III (H)
Mathematics
United States History or AP U.S. History
Physical Ed

JUNIOR ELECTIVES

YEAR LONG COURSES

Land/Turf Mgmt (PCC) (1)
Natural Resource Mgmt
Ag Bus Management
Animal Science (1/2)
Crop Science (1/2)
Accounting I
Art III
Spanish III
Pre-Calculus
AP Music Theory
AP Biology

SEMESTER COURSES

AP Chemistry
Anatomy/Physiology
Physics
Enviro Sci (HCC) (1)
Economics (1/2)
Psychology (1/2)
Sociology (1/2)
Intl Relations (1/2)
Marketing (1/2)
Consumer Mgmt (1/2)
Intro Speech (1/2)

SENIOR REQUIRED

English (1)
Civics (1/2)
Physical Ed

SENIOR ELECTIVES

YEAR LONG COURSES

AP Studio Art
AP English
AP Spanish
AP Calculus (HCC DC)
AP Statistics (HCC DC)
Foundations College Math

SEMESTER COURSES

Parenting (1/2)
Adv Physics (1/2)
Accounting II (1/2)
Composition II (1/2)
Contemporary Lit (1/2)
English Lit (1/2)
College Writing (HCC) (1/2)

PTHS SPECIAL EDUCATION COURSE OFFERINGS

Applied Mathematics
Transitional Math
Reading Essentials
Applied English
Transitional English
Resource
Life Skills I & II

LIVINGSTON AREA CAREER CENTER

COURSE OFFERINGS

Juniors and Seniors also have the option of taking classes from the Livingston Area Career Center. Students interested in taking career courses must apply to the LACC when they register for classes. The LACC courses include

Auto Mechanics I & II (2)	Culinary Arts I & II (2)
Early Childhood Ed (ECE) I & II (2)	Law Enforcement I & II (2)
Commercial Art I & II (2)	Cert Nurse Asst (CNA) (2)
Co-op Education (3)	Emerg Med Tech (EMT) (2)
Comp Main Tech I & II (2)	Manufacturing Tech(2)
Computer Networking I & II (2)	Welding I & II (2)
Const Occup I & II (2)	Cosmetology (3) Sr
Fire Fighting I & II (2)	Cosmetology (2) Jr
Eng/Arch Design I & II (2)	Medical Terminology (2)

PTHS COURSES OF STUDY

AGRICULTURE

INTRO TO AGRICULTURE (002, 003)

Class Level: 9

Credit: 1

Prerequisite: None

This orientation course provides an opportunity for students to learn how the agricultural 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 agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, agricultural mechanics, agricultural biotechnology, food science technology, environmental science and aquacultural science and technology will be presented. The development of leadership, employability and computer skills will also be taught. Because FFA and Supervised Agricultural Experience Programs are integral components of this course, students are encouraged to maintain an SAEP and to participate in activities of the organization.

AGRICULTURAL SCIENCE (004, 005)

Class Level: 10, 11, 12

Credit: 1

Prerequisite: Introduction to Agriculture

This orientation course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include advanced plant science, soil science, animal science, and agricultural mechanics. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. 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.

BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE (006, 007)

Class Level: 10, 11, 12

Credit: 1

Prerequisite: Biology

Biological Science Applications in Agriculture – Animals (1st semester) This course is designed to reinforce and extend students' understanding of science by associating scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of animal agriculture and specific biological science concepts that govern management decisions in the animal industry. Topics of study are in the areas of growth and development of animals – embryology, ethnology, nutrition, immunity systems, and processing animal products – preservation, fermentation, and pasteurization. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. 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.

Biological Science Applications in Agriculture – Plants (2nd semester) This course is designed to reinforce and extend students' understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of plant growth and management in agriculture and the specific biological science concepts that govern management decisions. Topics of study are in the areas of initiating plant growth – germination, plant sensory mechanisms, enzyme action, absorption, and managing plant growth – photosynthesis, respiration, translocation, metabolism, and growth regulation. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. 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.

LANDSCAPING AND TURF MANAGEMENT (PCC DC) (008, 009)

Class Level: 11, 12

Credit: 1

Prerequisite: Introduction to Agriculture

This advanced course focuses on the landscape, nursery, and turf segments of the horticulture industry. Units of student include: identifying landscape plants, designing landscape plans, landscape construction techniques, and installing landscape plants. Also included are nursery production, turf grass production, small engine repair, and maintenance of existing landscapes. Agribusiness units will cover calculating prices for work, managing a horticulture business, advertising, and sales. 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.

NATURAL RESOURCES MANAGEMENT AND CONSERVATION (010, 011)

Class Level: 11, 12

Credit: 1

Prerequisite: None

This course develops management and conservation skills in understanding the connection between agriculture and natural resources. Students will gain knowledge and develop skills in understanding natural resources and its importance; fish, wildlife, and forestry management and conservation; and exploring outdoor recreational enterprises. Hunting and fishing as a sport, growing and managing tree forests, and outdoor safety education will be featured. Career exploration will be discussed including: park ranger, game warden, campground manager, forester, conservation officer, wildlife manager, and related occupations. 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.

AGRICULTURAL BUSINESS MANAGEMENT (012, 013)

Class Level: 11, 12

Credit: 1

Prerequisite: Introduction to Agriculture

This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and/or business person. Instructional units include: business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, agricultural law, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. 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.

CROP SCIENCE (PCC DC) (014)

Class Level: 11, 12

Credit: 1

Prerequisite: Introduction to Agriculture or Consent of Instructor

This course is designed to provide students with the knowledge and skills necessary for future employment in the agronomy or related industries. Major units of instruction include scientific method, cellular biology, genetics, biotechnology, soil classifications, soil erosion and management, soil fertility, plant classification, plant anatomy and physiology, plant propagation, plant growth, integrated pest management, grain, oil, forage, sugar, and fiber crop production methods, grain quality, grain storage, and grain transportation. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. 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.

ANIMAL SCIENCE (PCC DC) (015)

Class Level: 11, 12

Credit: 1

Prerequisite: Introduction to Agriculture or Consent of Instructor

This course will develop students' understanding of the livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animal industry. Topics of instruction include scientific investigations, genetics, animal anatomy and physiology, animal nutrition, animal reproduction, animal health, and meat science. 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.

SUPERVISED AGRICULTURAL EXPERIENCE I (016, 017)

Class Level: 9, 10

Credit: 1/2

Prerequisite: Introduction to Agriculture or Consent of Instructor

This experience program is for students in the 9th and 10th grades. Students receiving career and technical credit in this area must be enrolled in an approved agricultural program sequence. Individual students will have a minimum of one approved project or acceptable plans for a project. Supervised study, project record book-work, training plans and agreements, report writing, and instructor project visitation and supervision are essentials of the supervised agricultural experience.

SUPERVISED AGRICULTURAL EXPERIENCE II (018, 019)

Class Level: 11, 12

Credit: 1/2

Prerequisite: SAE I or BSAA

This experience program is for 11th and 12th grade agricultural students. The opportunities and responsibilities are similar to those discussed under Supervised Agricultural Experience I with the exception that the experiences are conducted at a more advanced level of skill training. The project should be expanded as the student progresses through the agricultural program.

ART

ART I (020, 021)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

This is an introductory course to the visual arts. The content covers a variety of drawing media and concepts, color theory and painting, 3-dimensional design, pottery, and calligraphy. Students learn about visual art careers and art history. This course is a prerequisite for advanced art classes.

ART II (022, 023)

Class Level: 10, 11, 12

Credit: 1

Prerequisite: Art I

This course is designed to further develop the concepts and skills learned in Art I and is available for second level Art students. Students will use the skills and techniques learned previously to enhance artwork in two and three-dimensional design using a variety of different media. The two-dimensional media includes graphite, charcoal, pastels, color pencil, acrylic, watercolor, and ink techniques. Three-dimensional work explored in this class includes ceramics, foam sculpture, along with non-traditional sculpture materials. The student will develop an ability to make effective choices concerning media, techniques, subject matter, methods of interpretation, and compositional design.

ART III (024, 025)

Class Level: 10, 11, 12

Credit: 1

Prerequisite: Art 1 and Art II

This course is meant for third level advanced Art students who have completed Art I and Art II. Skills learned in Art I and Art II are incorporated and enhanced through this course. Each student will use their prior knowledge in the previous courses to investigate more thoroughly two-dimensional and three-dimensional projects. Students must show initiative and good work habits in addition to being interested in Art.

STUDIO ART (AP) (030, 031)

Class Level: 11, 12

Credit: 1

Prerequisite: Two courses above Art I level and/or instructor's consent.

The AP Studio Art class is designed for the student who is seriously interested in the practical experience of art. AP Studio Art is not based on a written examination; instead, students submit portfolios for evaluation at the end of the school year. Students can submit portfolios in one of three areas, Drawing Portfolio, Two-Dimensional Design Portfolio, or Three-Dimensional Design Portfolio. The portfolios are designed to allow freedom in structuring the course while keeping in mind that the quality and breadth of the work should reflect first-year college-level standards. There are three major areas or concerns that are to be shown in the portfolio: (1) a sense of quality in a student's work; (2) the student's concentration on a particular visual interest or problem, (3) the student's need for breadth of experience in the formal, technical, and expressive means of the artist.

BUSINESS

ACCOUNTING I (070, 071)

Class Level: 10, 11, 12

Credit: 1

Prerequisite: None

This course provides the student with the necessary skills and techniques to perform double-entry accounting tasks commonly found in a sole proprietorship and partnership business. Directed practice through problems and a manual and automated simulation allows the student to maintain a set of books covering the entire accounting cycle from analyzing, journalizing, posting to general and subsidiary ledgers, adjusting and closing entries at the end of a fiscal period, and preparing financial statements.

ACCOUNTING II (075)

Class Level: 11, 12

Credit: 1/2

Prerequisite: Accounting I

Accounting II develops and enhances the accounting knowledge and skills learned in Accounting I. This course details the career opportunities in accounting and provides students with the knowledge for entry-level accounting positions and a foundation for further accounting study. Additional study of corporate accounting and automated accounting for Windows is implemented to take the student through sole-proprietorship, partnership, and corporate accounting procedures.

CONSUMER EDUCATION (080)

Class Level: 10, 11, 12

Credit: 1/2

Prerequisite: None

This course provides students with a better understanding of being a productive and ethical member of society. Students will be introduced and given applications on the following topics: economics in our world today, consumer protection, advertising and its influences on the consumer, comparative shopping, using checking and savings accounts, borrowing and investing money, using charge accounts and installment contracts, buying home, auto and life insurance, providing housing, law and the consumer, and preparing personal income tax forms.

COMPUTER APPLICATIONS (092)

Class Level: 9, 10, 11, 12

Credit: 1/2

Prerequisite: None

This is an introductory course utilizing computers and their capabilities, terminology, and functions. Students will be introduced to types of information processing hardware, software, and business applications. Word processing and spreadsheets will be created and edited in this course.

ADVANCED COMPUTER APPLICATIONS (095)

Class Level: 10, 11, 12

Credit: 1/2

Prerequisite: Computer Applications

Advanced Computer Applications is designed as a follow-up course to Computer Applications. This course builds on the students' knowledge of word processing and spreadsheets. Students will be introduced to creating a database. Students will develop projects that integrate software applications.

WEB PAGE AND INTERACTIVE MEDIA DEVELOPMENT I (097)

Class Level: 10, 11, 12

Credit: 1/2

Prerequisite: Computer Apps suggested

Web Page and Interactive Media Development I is a skill-level course designed to prepare students to plan, design, create and maintain web pages and sites. Students will learn the fundamentals of web page design using HTML, HTML editors, and graphic editors as well as programming tools such as JavaScript. Students will work in a project-based environment to create a working website. Students will learn to create pages, and hyperlinks, make tables and frames, create forms, integrate images, and set styles. Students will use image-editing programs to manipulate scanned images, computer graphics, and original artwork. Instruction will include creating graphical headers, interactive menus and buttons, and visually appealing backgrounds. Students will use hardware and software to capture, edit, create, and compress audio and video clips.

COMPUTER SCIENCE (096)

Class Level: 9, 10, 11, 12

Credit: 1/2

Prerequisite: Algebra I completion is suggested

This is an introductory course in computer programming. Students will explore the knowledge and skills necessary to construct computer programs in one or more basic languages. Initially, students will learn to structure, create, document, and debug computer programs, and as they progress, more emphasis is placed on design, style, clarity, and efficiency. Student may apply the skills they learn to relevant applications such as modeling, data management, graphics, and text-processing.

WEB PAGE AND INTERACTIVE MEDIA DEVELOPMENT II (098)**Class Level:** 10, 11, 12**Credit:** 1/2**Prerequisite:** Web Design I

Web Page and Interactive Media Development II is a skill-level course for students who have completed Web Page and Interactive Media Development I. Instruction will include using multimedia authoring applications and programming tools such as JavaScript to create a web site that combines text, hyperlinks, images, video, and sound. Instruction will include using hardware and software to capture, edit, create, and compress audio and video clips as well as create animated text, graphics, and images. Other topics will include using table to align images with text, creating newspaper-style columns, and inserting side menus and call-outs. Students will learn how to use templates, cascading style sheets and interactive elements to enhance web pages. Students will learn to create dynamic forms that include multiple-choice questions, comment boxes, and buttons. Students will learn how to connect to a database and retrieve and write data. Students are encouraged to develop a portfolio project that demonstrates their expertise in areas such as multimedia authoring, web development, audio and video editing, and advanced JavaScript applications to create interactive web pages.

MARKETING (099)**Class Level:** 11, 12**Credit:** 1/2**Prerequisite:** None

This course explores the basic principles of marketing such as the creation of concepts, strategies, and the development of marketing plans. Students learn about the components of the marketing mix, target marketing, sponsorship, event marketing, promotions, proposals, and execution of planning. This course emphasizes strong decision making, critical thinking, and collaborative skills to complete group marketing projects throughout the semester. Marketing introduces students to this exciting field, which includes advertising, consumer research, product development, packaging, and selling. Students will be challenged to create new marketing ideas as they analyze current marketing trends. Students will also explore the legal aspects of these industries. Real life projects allow students to demonstrate their understanding of these areas. This course will examine the impact of marketing in our everyday lives, as well as teach many critical business concepts to ready students for a career in the area of marketing.

COMPOSITION II (121)**Class Level: 12****Credit: 1/2****Prerequisite: English III or Rhet II**

This course reinforces and advances the writing skills developed in Comp I. The course includes an analysis of the principles of persuasion and argumentation as well as an application of these principles. The process of refutation is also examined. Emphasis is placed on the importance of logic in the clear and accurate expression of ideas.

ENGLISH (AP) (112, 113)**Class Level: 12****Credit: 1****Prerequisite: Rhet III (H)**

AP English is the final course in the honors sequence. Students will analyze poetry, drama, novels, and short stories. Emphasis will be placed on writing analytical compositions about literature studied in class as well as literature unfamiliar to students. A research paper will also be required. Students will have completed the necessary preparations to take the Advanced Placement exam offered in May.

ENGLISH LITERATURE (126)**Class Level: 12****Credit: 1/2****Prerequisite: English III**

A historical survey of the major periods of English literature emphasizes the Old and Middle English Periods, the Elizabethan Period, the Romantic Period, the Victorian Period, and the Early Modern Period. The course is designed to show the relationship of a national literature to the nation's history.

CONTEMPORARY LITERATURE (125)**Class Level: 12****Credit: 1/2****Prerequisite: English III**

This is an intensive course dealing with modern literature as a reflection of the twentieth century. Works and studies vary from semester to semester in order to include recent available fiction and non-fiction.

INTRODUCTION TO SPEECH (140)**Class Level: 11, 12****Credit: 1/2****Prerequisite: English II**

This basic speech-communication course studies the process of communication. Study is made of the actions and reactions of persons in successful/unsuccessful communication situations. Content includes nonverbal, interpersonal, group communications, and persuasion. Students present individual speaking assignments.

COLLEGE WRITING (HCC DC) (142)**Class Level: 12****Credit: 1/2****Prerequisite: English III**

This is an introduction to college-level writing, with training in the skills needed at each phase of the writing process, including generating ideas about a topic, determining a purpose, forming a controlling idea, analyzing the needs of your audience, organizing and planning your writing, and composing effective sentences, paragraphs, and essays. ENGL 101 is intended to prepare students to write effectively for a variety of audiences and purposes. A final portfolio that includes research papers is required. This portfolio constitutes the majority of the grade for this course.

FAMILY AND CONSUMER SCIENCE

FAMILY AND CAREER RELATIONSHIPS (200)

Class Level: 9

Credit: 1/2

Prerequisite: None

This course is designed to focus on the knowledge, attitudes, and behaviors needed to participate in positive, caring, and respectful relationships in the family, community, and workplace. This project-based course uses communication, leadership and management methods to develop knowledge and behaviors necessary for individuals to become independent, contributing, and responsible participants in family, community, and career settings. Emphasis is placed on the development of techniques and strategies to assist individuals in responding to situations presented in family relationships and the workplace. The course content includes: managing responsibilities, satisfactions and stresses of work and family life; analyzing personal standards, needs, aptitudes and goals; roles and responsibilities of living independently and as a family member; demonstrating goal-setting and decision-making skills; identifying and utilizing community resources; and developing effective relationships to promote communication with others. The course provides students content to identify resources that will assist them in managing life situations.

FOODS I (205)

Class Level: 9, 10, 11, 12

Credit: 1/2

Prerequisite: Living Skills is recommended

This course includes classroom and laboratory experiences needed to develop a knowledge and understanding of culinary principles and nutrition for people of all ages. Course content encompass: food service and preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health, safety, and sanitation requirements; maximizing resources when planning/preparing/preserving/serving food; applying hospitality skills; analyzing nutritional needs in relation to change; and careers in nutrition and culinary arts, including entrepreneurship investigation.

FOODS II (206)

Class Level: 10, 11, 12

Credit: 1/2

Prerequisite: Foods I

This course continues to broaden and develop the student's knowledge and understanding of culinary principles and nutrition for people of all ages. Course content encompass: food service and preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health, safety, and sanitation requirements; maximizing resources when planning/preparing/preserving/serving food; applying hospitality skills; analyzing nutritional needs in relation to change; and careers in nutrition and culinary arts, including entrepreneurship investigation.

TEXTILES AND DESIGN I (201)

Class Level: 9, 10, 11, 12

Credit: 1/2

Prerequisite: Living Skills Recommended

This course is designed to provide basic knowledge and understanding of the design, development, and production of textile products. Through hands-on and project based learning experiences students will discover fiber characteristics, fabric construction methods, elements of science and design in textiles and apparel, and basic construction skills used in interior furnishings and apparel industries. This course emphasizes awareness and investigation of careers and industry trends in textiles

TEXTILES AND DESIGN II (202)

Class Level: 10, 11, 12

Credit: 1/2

Prerequisite: Clothing And Design I

This course continues to provide basic knowledge and understanding of the design, development, and production of textile products. Through hands-on and project based learning experiences students will discover fiber characteristics, fabric construction methods, elements of science and design in textiles and apparel, and basic construction skills used in interior furnishings and apparel industries. This course emphasizes awareness and investigation of careers and industry trends in textiles.

CHILD DEVELOPMENT (220)

Class Level: 10, 11, 12

Credit: 1/2

Prerequisite: None

Child Development and Parenting addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. The focus is on research-based nurturing and parenting practices and skills, including brain development research, that support positive development of children. Students will explore opportunities in human services and education-related careers and develop a career portfolio.

RESOURCE MANAGEMENT AND PLANNING (Consumer Management) (223)**Class Level:** 11, 12**Credit:** 1/2**Prerequisite:** None

This course focuses on the identification and management of personal and family resources to meet the needs, values, and wants of individuals and families throughout the life cycle. The course utilizes a variety of project-based experiences and service learning opportunities to gain knowledge and expertise in understanding and applying management skills, with consideration to diverse social, economic, technological, environmental, and cultural characteristics of individuals and families. Topics include: consumer rights and responsibilities in the marketplace; financial responsibility and decision making; planning and money management; credit and debt; risk management and insurance; saving and investment; homeownership; state and federal taxes; electronic banking; and current issues in the economy.

PARENTING (225)**Class Level:** 12**Credit:** 1/2**Prerequisite:** None

This course helps students understand the responsibilities, satisfactions and stresses of parenthood. Course content includes the following; managing and organizing parenting by applying decision-making and goal-setting skills; applying the basic principles of the parenting process; practicing health and safety standards as related to parenting; providing experiences which encourage parents and children to maximize resources; encouraging human relations skills in children/adolescents; community resource agencies and services; and evaluating impact on parenting of family and career changes.

FOREIGN LANGUAGE

SPANISH I (190, 191)**Class Level:** 9, 10, 11, 12**Credit:** 1**Prerequisite:** See Below

This course is designed to enable the student to build a basic vocabulary and become familiar with basic grammatical structures and sentence patterns. All aspects of language learning are stressed—writing, reading, listening, and speaking. The culture and history of Spanish-speaking countries are integrated in the lessons. The student is required to keep a comprehensive portfolio demonstrating reading, writing, and speaking skills. **A grade of C or better in the last Grammar/Composition Course and a strong background of English grammar is highly recommended.**

SPANISH II (194, 195)**Class Level:** 10, 11, 12**Credit:** 1**Prerequisite:** A "C" or better in Spanish I is strongly recommended

This course is a continuation of Spanish I with emphasis on more detailed grammatical structures and sentence patterns. A more complex vocabulary is utilized. The culture and history of Spanish-speaking countries are integrated in the lessons. The student is required to keep a comprehensive portfolio demonstrating reading, writing, and speaking skills.

SPANISH III (196, 197)**Class Level:** 11, 12**Credit:** 1**Prerequisite:** A "C" or better in Spanish II is recommended

This course is a continuation of Spanish II with emphasis on the use of the language. Detailed grammatical structures will be studied. A more complex vocabulary, containing Spanish idiom, will be utilized. The student is expected to become more proficient in speaking, writing, reading, and listening. More time will be spent on Spanish and Latin American culture and history. The student is required to keep a comprehensive portfolio and a weekly journal.

SPANISH (AP) (198, 199)**Class Level:** 12**Credit:** 1**Prerequisite:** Spanish III

This course is a continuation of Spanish III. In this course, the student will refine speaking, writing, reading, and listening skills so that he will be prepared for college entrance exams and the AP Spanish Language Test. Detailed grammatical structures and complex vocabulary will be learned and utilized. Spanish and Latin American history and culture will be studied as well as current events. Throughout the course, the student is expected to keep a weekly journal to improve writing skills.

HEALTH SCIENCE TECHNOLOGY

ORIENTATION TO HEALTH OCCUPATIONS (235)

Class Level: 9, 10, 11

Credit: 1/2

Prerequisite: None

The course should expose students to the variety of opportunities available within the health care industry (e.g., such as nursing, therapy, vision and dental care, administrative services, and lab technology) which should include classroom and community-based activities. The main purpose of this course is to assist students in further development of their self-concept and in matching personal abilities and interest to a tentative career choice. The suggested course content should provide in-depth information into health occupations careers and trends, the occupational and educational opportunities and the educational, physical, emotional and attitudinal requirements.

INDUSTRIAL TECHNOLOGY

INTRODUCTION TO INDUSTRIAL TECHNOLOGY COMMUNICATION TECHNOLOGY (240, 241)

Class Level: 9

Credit: 1

Prerequisite: None

The Introduction to Industrial Technology courses provides an important link between classroom lessons and hands-on application. The Industrial Technology curriculum allows the student to explore different career opportunities, experience real-life problem solving situations, and realize the connection between the core subject area curriculum and how it can be applied to a variety of careers. Topics may include technologies and equipment used in the transportation, communication, and the carpentry fields.

WOODS I (260)

Class Level: 10, 11, 12

Credit: 1/2

Prerequisite: Intro to Tech-Production is recommended

This course is designed to introduce students to the Carpentry/Carpenter occupation. Students are instructed in areas of safety, including hand tool, power tool, ladder, scaffolding and the use of safety harnesses. Students are introduced to the theoretical knowledge needed to lay out rafter, stairs, and basic framing techniques. Students demonstrate knowledge of blueprint reading, including foundations, concrete, floor plans, specification schedules, and electrical, plumbing and mechanical symbols. Students demonstrate entry-level skills in all facets of residential construction. Technology-related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum.

WOODS II (261)

Class Level: 10, 11, 12

Credit: 1/2

Prerequisite: Woods I

This course is designed to continue to introduce students to the Carpentry/Carpenter occupation. Students are instructed in areas of safety, including hand tool, power tool, ladder, scaffolding and the use of safety harnesses. Students are introduced to the theoretical knowledge needed to lay out rafter, stairs, and basic framing techniques. Students demonstrate knowledge of blueprint reading, including foundations, concrete, floor plans, specification schedules, and electrical, plumbing and mechanical symbols. Students demonstrate entry-level skills in all facets of residential construction. Technology-related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum. This course is designed for the experienced students and will advance their skills and knowledge of the woodworking industry as they complete a project(s) of their choice. Emphasis will be placed on leadership, work ethics, specialized woodworking machine processes, and finishing techniques related to selected project(s).

BEGINNING WELDING (265)

Class Level: 10, 11, 12

Credit: 1/2

Prerequisite: None

Beginning Welding course enables students to gain knowledge of the properties, uses, and applications of various metals, skills in various processes used to join and cut metals (such as oxyacetylene, shielded metal, metal inert gas, and tungsten arc processes), and experience in identifying, selecting, and rating appropriate techniques. Welding courses often include instruction in interpreting blueprints or other types of specifications.

DRAFTING I (275)**Class Level:** 10, 11, 12**Credit:** 1/2**Prerequisite:** Intro to Tech Communications recommended

Drafting—General courses, usually offered as a sequence of courses, introduce students to the technical craft of drawing illustrations to represent and/or analyze design specifications and then refine the skills necessary for this craft. Drafting—General courses use exercises from a variety of applications to provide students with the knowledge and experience to develop the ability to perform freehand sketching, lettering, geometric construction, and multi-view projections and to produce various types of drawings (working, detail, assembly, schematic, perspective, and so on). Computer-aided drafting (CAD) systems (if available) are typically introduced and used to fulfill course objectives.

DRAFTING II (276)**Class Level:** 10, 11, 12**Credit:** 1/2**Prerequisite:** CAD I

Drafting II is a continuation of the technical craft of drawing illustrations to represent and/or analyze design specifications and then refine the skills necessary for this craft. Drafting—General courses use exercises from a variety of applications to provide students with the knowledge and experience to develop the ability to perform freehand sketching, lettering, geometric construction, and multi-view projections and to produce various types of drawings (working, detail, assembly, schematic, perspective, and so on). Computer-aided drafting (CAD) systems (if available) are typically introduced and used to fulfill course objectives.

SMALL ENGINE REPAIR I (285)**Class Level:** 10, 11, 12**Credit:** 1/2**Prerequisite:** Intro to Tech-Energy or Transportation is recommended

Small engine repair is an instructional program that prepares individuals to troubleshoot, service, and repair a variety of small internal-combustion engines, involving both two and four cycle engines used on portable power equipment. Planned activities will allow students to become knowledgeable of fundamental principles and technical skills related to troubleshooting, repairing, identifying parts and making precision measurements. Safety will be a key component of this class. Students will also be exposed to career opportunities related to small engines.

AUTOMOTIVE TECHNICIAN I (290)**Class Level:** 10, 11, 12**Credit:** 1/2**Prerequisite:** Intro to Tech-Energy or Transportation is recommended

Beginning Automotive Service course emphasizes preventative auto maintenance and automobile troubleshooting. Course content typically includes tune-up, oil change, and lubrication skills; tire replacement, alignment, and balancing; and basic knowledge of brake, cooling, electrical, emission, fuel, ignition, steering, suspension, and transmission systems.

MATHEMATICS

CONCEPTS IN ALGEBRA (310, 311)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: Departmental Placement

This course is designed to prepare students for the Algebra I curriculum. Topics that will be covered include real numbers and exponents, expressions and equations, congruence and similarity, functions, linear systems, Pythagorean systems, volume, patterns, and the relationship between variables.

ALGEBRA I (330, 331)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

This course considers number systems from natural numbers through real numbers together with their fundamental properties. Topics include set concepts, variables, solution sets to equations and inequalities, factoring polynomials, graphing, solving systems of equations, rational and irrational numbers, the Pythagorean theorem, and quadratic equations. A 4-function, fraction, or graphing calculator is recommended.

PLANE GEOMETRY (360, 361)

Class Level: 10, 11, 12

Credit: 1

Prerequisite: Algebra I

This course is designed for those students who need a basic course in geometry with minimal emphasis on proof. It provides a simple, yet thorough, introduction to the fundamentals of Euclidean geometry. **Students may not receive credit for both Geometry and Plane Geometry. A graphing calculator (TI-83 Plus or newer; TI-84 preferred) is recommended.**

GEOMETRY (350, 351)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: Algebra I

This course stresses the basic structure of geometry and the development of reasoning and proof capabilities. In addition to a foundation for geometry--triangles, other polygons, circles, concepts of space geometry, and relations among lines and planes--the course includes computation of areas and volumes, constructions, coordinate geometry, introduction to right triangle trigonometry, and an introduction to transformations. **A graphing calculator (TI-83 Plus or newer; TI-84 Plus recommended) is required.**

ALGEBRA II (338, 339)

Class Level: 10, 11, 12

Credit: 1

Prerequisite: Plane Geometry or Geometry

This course is designed for the student who needs a refresher course in Algebra I, improving his or her skills, so success can be met in Algebra II/Trig. The covers a variety of topics including review of Algebra I, and geometry, quadratic equations, matrices, statistics, and an introduction to trigonometry. **A graphing calculator (TI-83 Plus or newer) is required.**

ALGEBRA II/TRIG (340, 341)

Class Level: 10, 11, 12

Credit: 1

Prerequisite: Plane Geometry or Geometry

This course includes the study of rational, irrational, real, and complex numbers. Relations and functions are used as unifying concepts. The course covers linear and quadratic equations, conic sections, systems of first-and second-degree open sentences, radicals, exponential and logarithmic functions. The study of trigonometry through consideration of the circular functions is introduced. **A graphing calculator (TI-83 Plus or newer) is required.**

FOUNDATIONS FOR COLLEGE MATHEMATICS (346, 347)

Class Level: 12

Credit: 1

Prerequisite: Departmental Approval or
Elective if 3 math classes have been passed

This course corresponds to Heartland Community College courses that provide a fundamental understanding of mathematical concepts needed for college. This course corresponds to Math 93 and Math 94 which focus on students who need to develop their math skills prior to taking college level mathematics. Level 1 topics include: rational expressions, functions, radical expressions, and linear systems. Level 2 topics include: compound inequalities, systems of equations, complex numbers, and quadratic equations – students enrolled must possess self-discipline in order to work through computer-based modules.

PRE-CALCULUS (370, 371)

Class Level: 11, 12

Credit: 1

Prerequisite: Algebra II/Trig

This course presents and develops all of the necessary topics in preparation for a Calculus course. Geometry is integrated with algebraic concepts. Trigonometry, exponents, and logarithms are covered as a review of Algebra II/Trig. Vectors are studied in both two and three dimensions. Other topics included are complex numbers, sequences, and series with an introduction to limits, probability, statistics, matrices, polynomials, advanced topics in curve sketching with polar graphs, and an introduction to derivatives. **A graphing calculator (TI-83 Plus or newer) is required.**

STATISTICS (AP) (HCC DC) (380, 381)

Class Level: 11, 12

Credit: 1

Prerequisite: **See Below

This course is for students who wish to complete studies equivalent to an introductory, non-calculus-based, college course in statistics. The course will cover major concepts and develop tools for collecting, analyzing, and drawing conclusions from data. Four broad conceptual themes are addressed: exploring data using graphical and numerical techniques, planning a study and deciding what to measure and how to measure it, producing models using probability theory and simulation, and statistical inference. Projects, group problem-solving, writing, and the use of technology will all be emphasized. Students will have studied all topics necessary to take the Advanced Placement Statistics exam administered by the College Board in May that may result in college credit. **A graphing calculator (TI-83 Plus or newer) is required.**

****Jr. Standing -- Concurrent enrollment in Pre-calculus or
Approval by Mathematics Dept. Chair and Principal**

****Sr. Standing -- Pre-Calculus or
A or B in Alg 2/Trig or Instructor Approval**

CALCULUS (AP) (HCC DC)(390, 391)

Class Level: 12

Credit: 1

Prerequisite: Pre-Calculus

This course explores and develops derivatives, integrals, and their applications. This includes transcendental functions, parametric equations, and polar equations. The covers both first and second-semester college Calculus. Students will have studied all topics necessary to take the Advanced Placement Calculus (BC) exam administered by the College Board in May that may result in college credit. **A graphing calculator (TI-83 Plus or newer; TI-89 preferred) is required.**

MUSIC

BAND (400, 401)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

Any student who plays an instrument included in the standard band instrumentation may be in band. Those with no previous experience who are willing to take private instruction may become band members by becoming proficient on an instrument. All band students will be in marching band, concert band, and one pep band. The student may also elect solo and ensemble contest and jazz band. All band students are urged to participate in the summer band program including a one-week marching workshop. In addition to performance, students are also provided with basic theory as needed for successful performance. The band will divide into two concert groups (Symphonic Band, Concert Band) for concert performance based on student auditions, director recommendation, and consideration of balanced instrumentation. Freshman percussionists will be in a percussion class 2nd semester. This class is an introduction to percussion performance, designed to help each student develop the proper habits and technical fundamentals of comprehensive multiple-percussion performance (snare drum, timpani, keyboards, auxiliary percussion, and drum set) within the class and with the band ensembles. Because of the number of performances, a band student must be prepared to spend much time outside of school hours.

FLAGS (444)

Class Level: 9, 10, 11, 12

Credit: 1/4

Prerequisite: None

The flag corps is a very important segment of the marching band. The corps performs with the band in school and civic parades, half-time shows, contests, and school assemblies. The corps is a first quarter class. Membership is by audition only. Auditions are held in the spring of every year.

MUSIC THEORY I (406, 407)

Class Level: 10, 11, 12

Credit: 1

Prerequisite: Concurrent enrollment in Band or Chorus

This course concentrates on the fundamentals and materials of music. Structured work is done in the areas of dictation, sight singing, literature, and history. Emphasis is placed upon basic music notation, scales, harmony, ear training, basic keyboard skills, simple instrumental and vocal arranging, original composition, and conducting.

MUSIC THEORY (AP) (408, 409)

Class Level: 11, 12

Credit: 1

Prerequisite: Music Theory I, and concurrent enrollment in Band or Chorus

This course is designed as a continuation of Music Theory I with advanced work and emphasis upon arranging, ear training, and original composition with emphasis on the harmonic materials of music. Twentieth century music will be studied. The course will provide foundation materials in preparing for the Advanced Placement test in Music Theory.

CHORUS

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

Treble Chorus I (420, 421): Treble Chorus I is a beginning chorus for female students. Basic fundamentals of choral music such as tone production, rhythm, diction, and blend are taught in the class. All chorus students are eligible to audition for Concert Choir, a select performing group for the more advanced students. Students are required to participate as a group in contests, rehearsals, and performances as scheduled throughout the year.

Treble Chorus II (430, 431): Treble Chorus II is designed for the development of the female voice. Basic fundamentals are stressed including sight-reading skills and music theory. Students are eligible to audition for Concert Choir, a select performing group. Students are required to participate as a group in contests, rehearsals, and performances as scheduled throughout the year.

Concert Choir (440, 441): Students in Concert Choir are selected by audition. They must be able to demonstrate basic vocal skills and desirable vocal tone as well as a working knowledge of music theory. Sight-reading skills and enhanced vocal production are stressed. Concert Choir students are eligible to audition for Madrigals and other specialized groups that perform regularly for community groups and other schools. Students are also required to participate as a group in contests, rehearsals, and performances as scheduled throughout the year.

Boys Chorus (442-443) Boys Chorus is a beginning chorus for male students. Basic fundamentals of choral music such as tone production, rhythm diction and blend are taught in the class. All chorus students are eligible to audition for Concert Choir, a select performing group for the more advanced students. Students are required to participate as a group in contests, rehearsals, and performances as scheduled throughout the year.

PHYSICAL EDUCATION—HEALTH—DRIVERS EDUCATION

PHYSICAL EDUCATION (500, 501, 510, 511)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

A course in physical education is required of all students during each assigned semester at PTHS. Activities are designed to develop proper health attitudes and habits, to stimulate interest in sports which will carry over into adult life, and to provide opportunities for the development of desirable character traits. Activities are arranged seasonally.

Students take a required curriculum during the freshman year and an elective curriculum for their final three years. As part of their elective curriculum, each student must complete no less than the following:

1. 2 team building units
 2. 2 creative movements units
 3. 3 individual and dual sport activities
 4. 1 swimming unit in addition to the freshman level
-

HEALTH EDUCATION (540)

Class Level: 9/10

Credit: 1/2

Prerequisite: None

Health Education is a state mandated course required for graduation. The overall aim of the school health program is for the student to work toward the development of a sound mind and body, to maintain and improve his own health, and to take appropriate responsibility in protecting the health of others. This course concentrates on the basic knowledge needed by the student in the areas of (1) understanding self, (2) human sexuality, (3) personal health habits, (4) drugs, alcohol and tobacco, (5) diseases, and (6) safety and emergency care.

DRIVER EDUCATION (550, 553, 554, 557)

Class Level: Age Appropriate

Credit: 1/4

Prerequisite: Academic Criteria

This course prepares the student for the acquisition of a driver's license by providing safe driving instruction and driving experience. The course of instruction required of each student at the high school level shall consist of a minimum of 30 clock hours of classroom instruction taught by a certified high school teacher. (This means the student shall be physically present in the room with the certified teacher for at least 30 clock hours). Also, an approved course in practice driving consisting of a minimum of 6 clock hours of individual behind-the-wheel instruction or its equivalent in a car which shall be provided.

SOCIAL STUDIES

UNITED STATES HISTORY (700, 701)

Class Level: 11

Credit: 1

Prerequisite: None

This is a survey course of U.S. History from its European background to the present. The first semester reviews the colonial, early national, and Civil War periods. Attention is given during the second semester to the nation's emergence as a world power, early twentieth century developments, and events up to the present. It is designed to give an understanding of our political, social, and economic institutions.

UNITED STATES HISTORY (AP) (716, 717)

Class Level: 11 (10 – Rhet II Students)

Credit: 1

Prerequisite: Departmental Placement

The objective of this course is to increase the student's understanding of United States history from discovery to the present with the goal of having each student pass the AP examination. The course is divided into nine units of study arranged chronologically corresponding to major periods in American history. The areas of concentration include historical, political, and economic history coupled with an intense study of cultural and intellectual institutions and their development. This course is taught at the college level and revolves around student-initiated research and discussion.

ILLINOIS STUDIES (718)

Class Level: 9, 10, 11, 12

Credit: 1/2

Prerequisite: None

This course provides an opportunity to study our state and local community. Emphasis is placed on Illinois geography, state and local history, historical figures from Illinois, and state and local government. This course includes an extensive look at Pontiac and the surrounding area. The Illinois Constitution will also be included in the content of this course.

GLOBAL STUDIES (724, 725)

Class Level: 9

Credit: 1

Prerequisite: None

This is a survey course with a focus on global studies through historical eras. Students will learn about the history of major world regions from Ancient Civilizations and the Middle Ages to the World Wars, Globalization, and the Modern Age to gain a deeper understanding of the origins of current world issues. Emphasis will be placed on the use of primary and secondary sources and historical research and analysis. In addition students will be developing the skills necessary to be successful at the high school level.

WORLD GEOGRAPHY: (730)

Class Level: 9, 10, 11, 12

Credit: ½

Prerequisite: None

This course begins by developing concepts critical to the study of Geography (Five Themes of Geography and elements of Physical and Human Geography). Using these concepts, students will study regions in the developed world (Europe, U.S.A., and Canada) and developing world (Africa, Middle and South America, Southwest Asia, South Asia, and the Pacific), placing emphasis on understanding the various political, economic, and social/cultural aspects of those regions.

SOCIOLOGY (735)

Class Level: 11, 12

Credit: 1/2

Prerequisite: None

This course deals with man in his social environment. Various social systems—political, economic, religious, family, race, and criminal justice—are studied. Also included are discussions of relevant modern social problems such as urban lifestyles, mass media, and popular culture. Community service is required. Sociology is recommended for juniors in the top half of their class and seniors.

PSYCHOLOGY (736)

Class Level: 11, 12

Credit: 1/2

Prerequisite: None

This course deals with the study of human behavior and personality. Students will examine several theories designed to understand the personality and the determinants of a personality. Areas emphasized include behaviorism, memory, learning theories, motivation, psychology through the life cycle, personality theories, and stress. Psychology is recommended for juniors in the top half of their class and seniors.

ECONOMICS (740)

Class Level: 11, 12

Credit: 1/2

Prerequisite: None

This is a survey course of the American capitalistic system in terms of production of goods and services; types of business organizations; money, credit, and banking; how prices are determined; distribution of income and goods; economic aspects of government; and saving and investing. The point of view of the course is based upon economics as the study of the way people attempt to make a living within the rules called an economic system.

INTERNATIONAL RELATIONS (742)

Class Level: 12

Credit: 1/2

Prerequisite: None

This course is an interactive overview of U.S. foreign policy. Its objective is to give students an understanding of why the U.S. has acted the way it has and acts the way it does toward other nations-states. The main topics covered are World War II, the Cuban Missile Crisis, Vietnam, the Cold War, the Middle East, the U.S. role in a changing world, genocide. Students will participate in a variety of active learning exercises to provide a hands-on grasp of the way international relations work and the choices they have to make as they participate in the world political system.

CIVICS (745)

Class Level: 12

Credit: 1/2

Prerequisite: None

This course in American government emphasizes the structure and functions, of federal, state, and local government. The student's role in a democracy is determined through relationships with citizenship, political parties, elections, interest groups, and public opinion. The state-required examination in American government and citizenship also forms part of the course requirement.

SPECIAL EDUCATION

BRIDGES ENGLISH (750, 751)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

This course emphasizes basic English skills needed for daily living and leisure. Sentence structure, paragraph organization, and completion of forms are emphasized. Short stories and novels are also read to give the student a knowledge of literature and to increase reading comprehension and vocabulary.

BRIDGES MATH (752, 753)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

This course is a two-year sequence designed to use the four basic mathematics processes to solve problems found in everyday life. It will cover a wide variety of other mathematical topics as an introduction to pre-algebra.

BRIDGES SOCIAL STUDIES (754, 755)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

This course provides an understanding and appreciation of American government at the local, state, and national level. Also included are the concepts of citizenship and freedom. The state required Federal and Illinois Constitution tests are administered in this class.

BRIDGES COMMUNITY (756)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

This course is designed to introduce students to the vocabulary and methodology involved in wisely buying goods and services.

BRIDGES SOCIAL STUDIES (757)

Class Level: 9, 10

Credit: 1

Prerequisite: None

This course studies the regions and current events of Illinois and the United States. Other topics include local events and their impact on students' lives. An extensive power point research project will be included, focusing on topics discussed in class.

BRIDGES SCIENCE (758, 759)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

This course is designed to provide a general introduction to the areas of physical science and life science. Some of the topics to be covered are heat, light, sound, electricity, weather, plants, animals and ecology.

BRIDGES SOCIAL SKILLS (760, 761)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

The main focus of this class is building successful relationships with others. Role playing using aggression replacement training will assist students with an understanding of how to interact with others.

APPLIED ENGLISH (762, 763)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

This course is designed to improve the student's performance in written communication using activities and curriculum that focus on basic grammar, sentence structure, spelling and proofreading skills. It is also designed to build vocabulary and comprehensive skills by exploring a variety of literature.

READING ESSENTIALS (770-771)

Class Level: 9, 10, 11, 12

Credit: 1

Prerequisite: None

Corrective Reading courses offer diagnostic and remedial activities designed to correct reading difficulties and habits that interfere with students' progress in developing reading skills and understandings. Activities are chosen to increase or improve students' reading comprehension, reading technique, and general literacy skills.

TRANSITIONAL ENGLISH (764, 765)**Class Level:** 9, 10, 11, 12**Credit:** 1**Prerequisite:** None

Transitional English is a required course designed to meet the needs of the special education student who may eventually be placed into the general English curriculum. The class focuses upon improving student performance in reading comprehension, writing skills, and oral communication.

APPLIED MATH (766, 767)**Class Level:** 9, 10, 11, 12**Credit:** 1**Prerequisite:** None

This is a two year math sequence. The areas covered the first year are 1) increasing computational accuracy, 2) solving word problems, 3) decimals, and 4) fractions. The second year's focus is based on a business-oriented curriculum that students will need for the work force.

TRANSITIONAL MATH (768, 769)**Class Level:** 9, 10, 11, 12**Credit:** 1**Prerequisite:** None

Transitional math is designed to prepare special education student for algebra in the general curriculum. This fast paced class reviews work with basic mathematical operations, percents, fractions, and introduces variables and graphing.

GOVERNMENT (774, 775)**Class Level:** 10, 11, 12**Credit:** 1**Prerequisite:** None

This course prepares students to understand and get involved in American government at the local, state, and national level. The state required Federal and Illinois Constitution Tests are administered in this course.

AMERICAN HISTORY (776, 777)**Class Level:** 10, 11, 12**Credit:** 1**Prerequisite:** None

This course is designed to develop a knowledge and appreciation of the United States and its history. It will cover United States history from its beginnings to the present. Focus will remain on the wars and the cause and effect they have had on the growth and development of our country.

APPLIED SCIENCE (780, 781)**Class Level:** 9, 10, 11, 12**Credit:** 1**Prerequisite:** None

This course is designed to provide a general introduction to the areas of physical science and life science. Some of the topics to be covered are heat, light, sound, electricity, weather, plants, animals and ecology.

RESOURCE (950, 951)**Class Level:** 9, 10, 11, 12**Credit:** 1/2**Prerequisite:** None

This class functions as a structured study hall in which students are provided with direct teacher assistance in various content areas as well as essential study and organizational skills needed for academic success. In addition, during this class students are given support with tests and quizzes according to their IEP accommodations. This is a graded class.

ADAPTED LIVING SKILLS (956, 957, 970, 971, 975, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985)**Class Level:** Departmental Placement

Placement in this course is based on an Individual Education Plan. The major focus is learning to communicate in the classroom and community using assistive technology. Students' needs are met based on their mental and physical disabilities.

LIFE SKILLS I & II (954, 955, 956, 957, 958, 959; 960, 961, 962, 963, 964, 965, 966, 967, 968, 969)**Class Level:** Departmental Placement

This program is a community-based life skills program which teaches independence in five areas: domestic, vocational, recreation/leisure, community, and functional academics.

LACC is designed to help students find their place in the ever-changing workforce. Through practical application and hands-on learning, we can help a student find their way to an amazing career or continue their education once they graduate. The content of our programs is designed to engage the student in the process of active learning, enriching your experience.

Enrollment in the Career Center is an excellent way for eligible high school students to get a jumpstart on their college education, engage in career exploration, prepare for a community college or four-year university, and develop skills needed in today's global economy and workforce. Specialized programs of study are available to high school juniors and seniors. Students are instructed by many of the area's top career and technical educators. Students use state-of-the-art equipment and experience hands-on skills learning.

Why Choose a Career Center Course:

- "Jumpstart" a college education by earning college credit while in high school.
- It is estimated that over 85 percent of jobs require training or education past high school.
- Tuition and transportation are provided by the student's high school.
- Whether a student plans to pursue a certificate, two or four year degree, or perhaps enter the world of work after completion of high school, the Career Center can help students develop skills.
- Students with a 3.3 GPA and enrolled in a Career Center course qualify to apply for National Technical Honor Society (NTHS).
- Each year the Director of the Career Center awards LACC scholarships to outstanding students representing each of the career and technical education programs.

College Credit Agreements

- Livingston Area Career Center has worked with the area community colleges to establish opportunities that will allow students to earn college credit while still in high school. LACC is primarily served by three community colleges.
- To take advantage of the dual credit programs, an academically qualified student enrolls in a college level course. Upon successful course completion, the student earns college credit and the high school may also offer high school credit.
- Interested students should contact LACC to receive current requirements. Depending on the program, students currently can earn from two to eighteen credit hours when they meet all the necessary requirements. Agreements are continually updated and new programs are being added each year. Contact the LACC office to obtain the most current information.
- Certification: LACC instructors work with business partners to implement industry certifications. These certifications will assist students with the next phase of their career. The following chart shows dual credit and certifications for each LACC program:

COURSE NAME	CERTIFICATIONS	DUAL CREDIT
Automotive Technology	Valvoline Education Certification	
Certified Nurse Assistant (C.N.A.)	Certified Nurse's Assistant *American Heart Association Health Care Provider BLS CPR	Heartland Community College 8 Credits – NURS 110
Computer Maintenance	COMP/TIA A+ Certification	Heartland Community College 10 Credits - CSCI 101, NETW150,NETW151
Computer Networking	CCNA (CISCO Certified)	Heartland Community College 16 Credits – CSCI 101, NETW 150, NETW 121, NETW 122, NETW 160
Construction Trades	National Center for Construction Education & Research Core Certification (NCCER)	
Cosmetology		Unity Cosmetology College 370 of 1500 hours needed (2 yrs)
Culinary Arts	ServSafe Manager Certification IDPH Food Safety Sanitation Manager Certification	Joliet Junior College 2 Credits – CA106
Early Childhood Education	Early Childhood Education – Level I (Illinois Gateway to Opportunity) CPR/1st Aid	Heartland Community College 6 Credits – CHLD 101; CHLD 102
Emergency Medical Technician (EMT)	*American Heart Association Health Care Provider BLS CPR *Eligible for Illinois Dept. of Public Health EMT Basic license exam	Heartland Community College 1.8 Credits
Engineering & Architectural Design	Auto Desk: Auto CAD; Inventor; Revit	Heartland Community College 9 Credits – CAD 101, CAD 235, TECH 114
Fire-Fighting	*American Heart Association Health Care Provider BLS CPR	
Inter-Related Coop		Heartland Community College 2 Credits – GPS Program
Law Enforcement	*American Heart Association Health Care Provider BLS CPR	Heartland Community College 3 Credits – CRJ 101
Medical Terminology	*American Heart Association Health Care Provider BLS CPR *HIPPA Training/Certification	Heartland Community College 3 Credits -HLTH 110
Welding	AWS Certification OSHA 10 CPR/1st Aid	Heartland Community College 12 Credits – WELD 110, WELD 116, TECH 114, MFTG 115

AUTOMOTIVE TECHNOLOGY I (828, 829)**Class Level:** 11, 12**Credit:** 2**Prerequisite:** None

This course is designed for juniors and seniors interested in understanding, maintaining, and performing minor or major repairs to their vehicle. Classroom activities include a systematic approach to understanding the basic operation of a motor vehicle. Integration of math, reading, communication, logical thinking, and teamwork is a part of Automotive Technology I. Lab activities include removal and installation of parts and the systematic diagnosis of automobiles. Most major systems of a vehicle will be studied. The student will be expected to develop good habits in the areas of work ethic, cooperation, attendance, attitude, leadership, and organization. This course is prelude to Automotive Technology II.

AUTOMOTIVE TECHNOLOGY II (830, 831)**Class Level:** 12**Credit:** 2**Prerequisite:** C or better in Auto I is recommended

Automotive Technology II is an extension of Automotive Technology I. This course will prepare a student for an entry-level position in the automotive field or additional schooling. College, trade school representatives, and other guest speakers are a part of Automotive Technology II. Classroom activities include group projects, individual critical thinking activities, and study materials used by the ASE (Automotive Service Excellence). Lab activities include a challenging list of automotive repair items. Automotive Technology II students are encouraged to bring in their own "project vehicles."

CERTIFIED NURSE ASSISTANT (870, 871)**Class Level:** 11, 12**Credit:** 2**Prerequisite:** None

The course is composed of a combination of subject matter and experiences designed to perform tasks of individuals receiving nursing services. The student learns those competencies needed to perform as a nurse assistant under the direction of the registered nurse. The units of instruction should include the role of the nurse assistant while covering general health care topics: medical terminology; patients/clients and their environment; special feeding techniques; psychological support and, in long term and terminal illness, death and dying (e.g., chronically ill, children, new mothers, and so on); and all other basic nursing skills. Topics covered typically include normal growth and development; feeding, transporting patients, hygiene, and disease prevention; basic pharmacology; first aid and CPR; observing and reporting; care of equipment and supplies; doctor, nurse, and patient relationships and roles; procedure policies; medical and professional ethics; and care of various kinds of patients. This program is approved by Illinois Department of Public Health. Upon successful completion, the student is eligible to sit for the competency exam.

***This course has been dual credited with Heartland Community College.**

COMPUTER MAINTENANCE I (806, 807)**Class Level:** 11, 12**Credit:** 2**Prerequisite:** None

This course is designed to provide students with the skills needed to install, setup, configure, test, troubleshoot, and maintain personal computers and peripherals. Instruction includes assembling, maintaining, and upgrading personal computers. Students learn how to install, upgrade, and troubleshoot various hardware components such as motherboards, hard drives, CD-ROMS, memory, power supplies, video cards, sound cards, and network cards. Students install and configure various desktop operating systems such as Windows, Apple, and Linux. The course includes adding and removing software programs, installing and updating system drivers, creating startup and recovery disk, and updating the BIOS and CMOS. Students learn to conduct preventive maintenance and perform system backups, data transfer, and recovery routines as well as use diagnostic utilities to troubleshoot hardware and software problems. Students also learn how to disassemble, clean, troubleshoot, and reassemble peripherals such as printers.

***This course has been dual credited with Heartland Community College.**

COMPUTER MAINTENANCE II (808, 809)**Class Level:** 12**Credit:** 2**Prerequisite:** C or better in Computer Maint. I is recommended

This course builds on the skills introduced in Computer Maintenance I. Students learn how to connect and install multiple computers and peripherals together to create a computer network. Students build, configure, and maintain network servers along with installing and configuring various network operating systems such as Novell, Windows, and Linux. Students learn to use troubleshooting services, system monitoring utilities, and data backup and recovery systems. Other topics include learning how to connect various network components such as servers, computers, and printers together using data cabling, hubs, and switches. Students learn to run, terminate, and troubleshoot data cabling. In addition, students learn how to install and upgrade software across the network, as well as map drives and share resources such as printers, software, and files. The course includes setting up and configuring various network services such as TCP/IP, DHCP, DNS, VPN, terminal services, e-mail, and web services. Students learn how to secure and protect network servers and data as well as setting up and configuring a firewall, intrusion detection system, and encryption software for identifying and preventing potential network attacks.

***This course has been dual credited with Heartland Community College.**

COMPUTER NETWORKING I (810, 811)**Class Level:** 11, 12**Credit:** 2**Prerequisite:** **Geometry or Administrative Consent**

Computer Networking I is a skill-level course designed to provide students with the skills needed to setup, configure, test, troubleshoot, maintain, and administer a data network using various network operating systems such as Windows and Linux. Instruction will include network planning decisions, such as choosing an appropriate network configuration, determining the performance level requirements considering the differences among operating systems, and recommending network interface cards and cabling. Students will also learn how to setup and manage file systems and resources, and network topologies, protocols, and system utilities to efficiently run software applications on a network. Students will learn to use basic operating system commands, install and configure networks, set up user accounts and rights, and establish user security and permissions.

***This course has been dual credited with Heartland Community College.**

COMPUTER NETWORKING II (812, 813)**Class Level:** 12**Credit:** 2**Prerequisite:** **Computer Networking I**

Computer Networking II is a skill-level course for students who have completed Computer Networking I. Students will continue to learn skills to set up, configure, test, troubleshoot, maintain, and administer a data network using various network operating systems such as Windows and Linux. Students will learn to use troubleshooting services, system monitoring utilities, and data backup and recovery systems. Instruction will include setting up and configuring various network services such as TCP/IP, DHCP, DNS, VPN, terminal services, e-mail, content filtering, and web services. Students will learn techniques to secure and protect network servers and data. Students will be introduced to some basic concepts regarding web server configuration. Students will also learn to use standard software tools to determine system vulnerabilities and correct these vulnerabilities by reconfiguring the operating system. Students will diagnose network problems using public domain network sniffers such as Ethereal. Instruction will include setting up and configuring a firewall, intrusion detection system, and encryption software for identifying and preventing potential network attacks.

***This course has been dual credited with Heartland Community College.**

CONSTRUCTION TRADES I (800, 801)**Class Level:** 11, 12**Credit:** 2**Prerequisite:** **None**

This course provides experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state and national codes, cost estimating, and blueprint reading.

CONSTRUCTION TRADES II (802, 803)**Class Level:** 12**Credit:** 2**Prerequisite:** **Construction Trades I**

This course provides learning experiences related to the erection, installation, maintenance, and repair of building structures and related utilities. Student technical skill experiences include instruction and activities in safety principles and practices, performing maintenance control functions, joining pipes, building water distribution lines and drains, installing and maintaining plumbing fixtures and systems, installing switch and outlet boxes, light fixtures, service entrances, roughing in and trimming out electrical devices and appliances, preparing foundations and footings, constructing residential chimneys and fireplaces, laying, jointing and pointing brick, and advanced building and construction methods and codes. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge.

COSMETOLOGY I (914, 915)**Class Level:** 11 or 12**Credit:** 2**Prerequisite:** **None**

The Cosmetology program must be approved and licensed by the Illinois Department of Financial and Professional Regulations, Division of Professional Regulation and meet all state and federal regulations. Cosmetology I introduces students to the requirements to become a licensed cosmetologist. It offers students instruction in both theory and practical application in the following areas: tools and their use, shampoo, understanding chemicals and use, types of hair, sanitation, hygiene, skin diseases and conditions, anatomy and physiology, electricity, ethics, nail technology and esthetics as they relate to the Barber, Cosmetology, Esthetics, and Nail Technology Act. Knowledge, skills and activities completed in this course will help prepare students for Cosmetology II, while earning hours towards licensure. All hours, grades, and classes accumulated during the student's time in LACC Cosmetology courses are credited towards the completion of the 1,500 clock hours required by the Illinois Dept. of Financial and Professional Regulation.

***Partnership with Unity Cosmetology College for hours.**

COSMETOLOGY II (916, 917)

Class Level: 12

Credit: 2

Prerequisite: Cosmetology I

The Cosmetology II program must be approved and licensed by the Illinois Department of Financial and Professional Regulations, Division of Professional Regulation and meet all state and federal regulations. This course offers students continued instruction in both theory and practical application. All hours, grades, and classes accumulated during the student's time in LACC Cosmetology courses are credited towards the completion of the 1,500 clock hours required by the Illinois Dept. of Financial and Professional Regulation.

***Partnership with Unity Cosmetology College for hours.**

CULINARY ARTS I (890, 891)

Class Level: 11, 12

Credit: 2

Prerequisite: None

Culinary Arts I provides students with information and experience relating to the planning, selecting, purchasing, preparing and serving of foods. Coursework includes the study of terminology, nutritional values, culinary math, quantity cooking, storage, equipment, sanitation, and knife skills. Instruction is geared to prepare students for entry level positions into occupations in the food industry. Students develop skills through practical experience in the lab and on extended campus. Additional content may include: catering, event planning, customer service, food service styles, menu styles, baking and pastry arts, hors d'oeuvres, breakfast cookery, meat selection and preparation, soups, and sandwiches.

***This course has been dual credited with Joliet Junior College.**

CULINARY ARTS II (892, 893)

Class Level: 12

Credit: 2

Prerequisite: Culinary Arts I

Culinary Arts II places emphasis for students to develop operational management skills. Content includes organization of food service systems, human relations, personnel training, and supervision. Students will continue to develop skills through more in depth practical experiences in both the lab and on extended campus opportunities. Additional topics may include: taking inventory, advertising, menu development, and individual mastery of culinary techniques. Employability skills will be emphasized throughout the two year sequence.

***This course has been dual credited with Joliet Junior College.**

EARLY CHILDHOOD EDUCATION I (880, 881)

Class Level: 11, 12

Credit: 2

Prerequisite: None

This course presents the history and philosophy of early childhood education. Areas of development from birth through age 5 are covered. Curriculum styles and observation methods are introduced and practiced. Students prepare for operation of a lab preschool. Career interests and opportunities are covered. Students prepare a professional portfolio including resume, cover letter, lesson plan samples, and class work. Students earn a Level I Early Childhood Education Credential.

***This course has been dual credited with Heartland Community College.**

EARLY CHILDHOOD EDUCATION II (882, 883)

Class Level: 12

Credit: 2

Prerequisite: ECE I

This course is a continuation of Early Childhood Education I. Emphasis is placed on the management aspects of the lab preschool as well as various early childhood programs. Students explore program types including philosophies and goals, program quality, licensing and registration laws, budgeting, staffing, inventory management, and public relations. Students continue the development of their professional portfolio. Students in good standing will be given the opportunity to intern at local early childhood sites.

***This course has been dual credited with Heartland Community College.**

EMERGENCY MEDICAL TECHNICIAN (864, 865)**Class Level:** 12**Credit:** 2**Prerequisite:** None

The EMT-Basic course is a cooperative joint venture between OSF Saint James Medical Center and LACC and will be taught in accordance with the 1994 EMT-Basic National Standard Curriculum, and includes a minimum of 120 hours core didactic (classroom) hours and 20 ED non-classroom clinical hours. Classes will be comprised of lectures, demonstrations, and practical given by the instructors approved by the Illinois Department of Public Health and the Emergency Medical Services System. At successful completion of the course, the students will have the opportunity to challenge the state of Illinois written exam and be licensed as an EMT-Basic. (The student must be 18 years of age within 90 days of completion of the course to take the state exam.)

***This course has been dual credited with Heartland Community College.**

ENGINEERING AND ARCHITECTURAL DESIGN I (814, 815)**Class Level:** 11, 12**Credit:** 2**Prerequisite:** None

This course is designed for students who are interested in exploring careers in engineering and architecture. Students will gain hands-on experience with using 3D printers and CNC machines. The 3D printer can make almost anything out of plastic, while the CNC can cut out objects using wood, plastic and thin metal. During the first semester, students become proficient at designing 2D and 3D models using programs like AutoDesk AutoCAD and Inventor. Throughout this process, they will learn problem-solving design processes and how it is applied in industry to manufacture a product. In the second semester, students will create residential architecture using drafting techniques and the industry leading program Revit, which creates floor plans, section views, elevations, and realistic representations of their houses. In this class, students have the opportunity to gain certification in AutoCAD, Inventor, and Revit, attend competitions, field trips, and problem-solving activities. Students can earn up to 6 college credits.

***This course has been dual credited with Heartland Community College.**

ENGINEERING AND ARCHITECTURAL DESIGN II (816, 817)**Class Level:** 12**Credit:** 2**Prerequisite:** Eng/Arch Design I

Students in this course learn how to use the 3D modeling program *Inventor* to apply core principles of Science, Technology, Engineering and Mathematics (STEM). Students will also make many projects using the CNC machine and 3D printer. Each project consists of applying problem solving skills to create inventions and innovations to prototypes in order to solve problems. In the second semester, students build on their architectural knowledge by studying structural commercial design process while developing Building Information Models that could be used to design their own building. Similar to Engineering and Architectural Design I, students will have an opportunity to earn certifications in *Inventor* and *Revit*, attend competitions, field trips, and problem-solving activities. Students can earn up to 3 college credits.

***This course has been dual credited with Heartland Community College.**

FIRE-FIGHTING I (860, 861)**Class Level:** 11, 12**Credit:** 2**Prerequisite:** None

This course is designed to provide the student with information in the history, traditions, terminology, organization, and roles and operation of the fire service. In addition, the class covers principles of combustion and building construction characteristics. The class also contains typical job and operational functions that should provide insight into the inner workings of the fire service.

FIRE-FIGHTING II (862, 863)**Class Level:** 12**Credit:** 2**Prerequisite:** Fire Science II

This course is designed to provide the student with the information needed in transitioning from firefighter level tasks into a supervisory role as a company officer. In addition, the class will cover basic principles in leadership, supervision, management, and instructing the Fire-Fighting I students during company drills. The class will also contain typical administrative duties in addition to the daily emergency operations that a company officer may encounter while working in the fire service.

INTER-RELATED COOPERATIVE EDUCATION (920, 921)**Class Level:** 12**Credit:** 3**Prerequisite:** Senior status

This course is designed to help students bridge the gap between school and the world of work. The course includes making decisions about the work place, career planning, entering the work force, the individual as a worker, and making financial decisions. Students also study different types of training, completing job resumes, applying for jobs, working with others, using credit, and buying insurance. The purpose of this course is twofold; students are provided practical work experience while still in high school and gain practical experience in applying for and interviewing for jobs. This work experience provides on-the-job training in the career area of the student's choice. The students will take regularly scheduled classes part of the day and a co-op work experience the other part of the day totaling a minimum of 15 hours per week. Students must apply through the LACC and will be interviewed.

LAW ENFORCEMENT I (872, 873)**Class Level:** 11, 12**Credit:** 2**Prerequisite:** None

Law Enforcement I is an introductory course designed to prepare students for an exciting career in the field of law or law enforcement. Students will be introduced to the history of the criminal justice system and the advancements in these ever-changing fields. Instruction will also include questioning procedures, legal rights, examination of routine police, court, and corrections procedures. Students will have the opportunity to meet professionals in the field, participate in simulated scenarios, demonstrations, and tour pertinent law enforcement sites. This course is a must have for those interested in the world of criminal justice. **This course has been dual credited with Heartland Community College.**

LAW ENFORCEMENT II (874, 875)**Class Level:** 12**Credit:** 2**Prerequisite:** Law Enforcement I

Law Enforcement II is an opportunity for those who have successfully completed Law Enforcement I to continue their exciting exploration of the field of law enforcement. Students will participate in an extended campus job shadowing experience with many local law enforcement agencies including careers in police work, telecommunications, courts, corrections, and probation. Students will research infamous killers and illicit drugs and present on their findings. Students will learn the 10-codes, the phonic alphabet, and the many forms police officers use on a regular basis. Students will conduct simulated traffic stops and will investigate simulated crimes. Professionals in the field will be brought in to share their insights and expertise bringing the real world to our classroom. Field trips will cap off the experience to give each student a well-rounded perspective of the criminal justice system. **This course has been dual credited with Heartland Community College.**

MEDICAL TERMINOLOGY AND HEALTH CAREERS (866, 867)**Class Level:** 11, 12**Credit:** 2**Prerequisite:** None

This course will provide a solid foundation of Medical Terminology and relate that terminology to various health related careers. Emphasis will be placed on correct spelling, pronunciation and abbreviation use. Combining prefixes, roots, and suffixes to form appropriate terminology and relate that terminology to body structure and function, disease and disorder processes, and medical/surgical procedures will be the structure of the course. The course is focused on providing the student with a basic working knowledge of medical terms and applying those terms to the health care field. It will also provide a foundation of knowledge for the student to build on. Students will also explore many related career opportunities in health related fields. Clinical experience and job shadowing will be offered as part of the course.

***This course has been dual credited with Heartland Community College.**

WELDING TECHNOLOGY I (850, 851)**Class Level:** 11, 12**Credit:** 2**Prerequisite:** None

This course assists students in gaining the knowledge and developing the basic skills needed to be successful in welding technology. Units of instruction include SMAW and MIG welding, metallurgy, cutting metal using arc, plasma and oxy-gas. In addition, students learn the basics of blueprint reading, applied math including use of formulas, geometry, and conversions, precision measuring, applied reading, material layout, and production process planning.

***This course has been aligned with the American Welding Societies (AWS) S.E.N.S.E. program, and students are given the opportunity to become an AWS entry level certified welder with the completion of this program.**

***This course has been dual credited with Heartland Community College.**

WELDING TECHNOLOGY II (852, 853)**Class Level:** 12**Credit:** 2**Prerequisite:** Welding Technology I

This course builds on the skills and concepts introduced in Welding I and provides more in-depth skill development in various types of welding including horizontal, vertical, overhead, and circular techniques. Students also explore the use of robotic and automated production welding.

***This course has been aligned with the American Welding Societies (AWS) S.E.N.S.E. program, and students are given the opportunity to become an AWS entry level certified welder with the completion of this program.**

***This course has been dual credited with Heartland Community College.**
