

HURON HIGH SCHOOL



COURSE DESCRIPTION GUIDE AND SCHEDULING INFORMATION

2015-2016

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Huron High School
32044 Huron River Drive
New Boston, Michigan 48164
(734) 782-1436 FAX (734) 783-1534
www.huronschools.org

Huron School District

Located in southwestern Wayne County, Michigan
 42 square miles
 Rural/Agricultural, Residential, Parklands
 Huron High School, Grades 9-12
 Renton Middle School, Grades 6-8
 Brown and Miller Elementary Schools, Grades K-5

Huron High School

Public, Grades 9-12, Enrollment: 930 students
 School Year: 3 trimesters
 Accreditation: AdvancedEd-N.C.A

Administration

(734) 782-2441 (Superintendent's Office)
Mr. Richard Naughton, Superintendent
(734) 782-1436 (High School Office)
Mr. Donovan Rowe, Principal
Mr. Steven Hudock, Assistant Principal
(734) 782-1777 (Athletic Office)
Mr. Martin Salazar, Athletic Director.

Guidance and Counseling

(734) 782-5360
Mr. Jason Pliska, Counselor
Ms. Anne Moigis, Counselor
Ms. Julie Sly, Secretary

Special Education

(734) 692-7570 (Special Education Office)
Mr. Thomas Arkwright, Consortium Director
(734) 782-1436 x222
Ms. Leslie DesJardins, Building Coordinator

Transportation

(734) 782-1418

Career Technical Consortium

(734) 782-3194 (Consortium Office)
Ms. Mary Brockschmidt, Consortium Director

Grading System

All courses are used to determine GPA. Career GPA and Class Rank are computed and updated by trimester. A.P. courses are weighted (1.25X).

| | | | | |
|--------|---|----|---|------|
| 101 + | = | A+ | = | 4.33 |
| 100-93 | = | A | = | 4.0 |
| 92-90 | = | A- | = | 3.6 |
| 89-87 | = | B+ | = | 3.33 |
| 86-83 | = | B | = | 3.0 |
| 82-80 | = | B- | = | 2.67 |
| 79-77 | = | C+ | = | 2.33 |
| 76-73 | = | C | = | 2.0 |
| 72-70 | = | C- | = | 1.67 |
| 69-67 | = | D+ | = | 1.33 |
| 66-63 | = | D | = | 1.0 |
| 62-60 | = | D- | = | 0.67 |
| 59-0 | = | E | = | 0.0 |

Miscellaneous grades:

| | |
|---|-------------------------------|
| F | Attendance failure, no credit |
| G | Passing work, credit |
| I | Incomplete, no credit |
| S | Passing work, no credit |
| U | Unsatisfactory, no credit |
| W | Withdraw, no credit |

Advanced Placement/Independent Study

Huron offers AP classes in the core curriculum. These classes are labeled *A.P.*

On occasion, students may elect an Independent Study (*I.S.*) program with teacher support.

Dual Enrollment College Courses

Junior and senior students, having met certain criteria, may enroll in college courses to receive college and high school credit concurrently. These classes will be labeled as *college study*.

2015-2016 School Year Course Scheduling

The scheduling process at Huron High School consists of several well-defined steps. Students and parents alike would be well advised to become familiar with the scheduling procedures.

It is particularly important that students and parents do some preliminary reading, discussing, and planning before the student selects courses for the upcoming year. This will help prevent errors in the student's schedule, and give direction and purpose to their selections.

Step 1. Students in grades eight through eleven will review the online **Course Description Book** (found at www.hhscounseling.weebly.com) for the 2015-2016 school year. Parents and students will have several days to read the descriptions of the courses, discuss options, project four-year plans, and make tentative course selections for the next school year. Students should seek advice from their parents, teachers, mentors, counselors, and other students.

Students should start by listing the required courses they must take. Elective courses should be chosen next, with several alternatives listed with these electives (*in the event that a desired elective course is not part of the final schedule, or a conflict with other courses occurs*). This should be done with career pathways and post-secondary plans in mind.

Step 2. All students will be given scheduling information in groups. Students will then complete a **Scheduling Form** indicating which required and elective courses they would like to schedule for the next year (*along with alternative selections*). Both the parent and the student must sign the scheduling form. This form will be returned to the counseling office and reviewed for errors, inappropriate course selections, and compared with teacher recommendations.

Step 3. Counselors will enter scheduling forms into the scheduling system. When completed, this will generate a tally of student selections for each course listed in the course description book. **Courses not selected by enough students will not be offered.** When the final number of sections and courses is determined, the computer will create a master schedule. Adjustments to this schedule will then be examined to allow the greatest number of students to be scheduled error free.

Step 4. Student schedules are then generated, again reviewed, and sent home for the student and parents to make their final review. In the event that a schedule change is required, contact the counseling department in August for an appointment to review the change request. Any change request that differs from a teacher's recommendation must be accompanied with a **Parent Override Form**, signed by a parent.

SCHEDULE CHANGES

Once signed schedule sheets have been submitted, no schedule changes will be made unless there is an academic basis for the change. Schedules will not be changed for students who have changed their mind about a class, want a different class, etc.

Students may adjust their schedule only due to the following reasons:

- Administrative or logistical error
- Failure of pre-requisite class
- Completion of summer school, correspondence or online credit recovery
- Changes to vocational schedules that are beyond the student's control
- Special Education adjustments
- Changes due to Co-op (approval required by Co-op Coordinator)
- Teacher recommendation
- Rescheduling due to class failure

If it becomes absolutely necessary for a student to drop/change a class based on the above criteria, the following will apply;

- Parent approval is required
- Students will have the first three school days of first trimester to request a schedule change, and the first two days of second and third trimesters to request a schedule change
- No changes to classes will be made after three days unless the schedule change is for one of the above conditions

Social Studies (Except Civics), Physical Education, Health, Visual Arts, Performing Arts, and Applied Arts may be modified only if the student takes additional credit(s) beyond the required credits in English Language Arts, Math, Science, or World Languages. Algebra II may be modified after completing 2.5 credits including .5 credit of Algebra II, completing a two year CTE curriculum which includes .5 credit of Algebra II content, or completing Algebra II over two school years.

CLASS OF 2016

ACADEMIC GRADUATION REQUIREMENTS HURON HIGH SCHOOL

27.5 CREDITS REQUIRED TO GRADUATE

| <i>SUBJECT</i> | <i>GRADUATION REQUIREMENT</i> |
|------------------------------|--|
| Art | 1 Credit |
| English/Language Arts | 4 Credits |
| Foreign Language | 2 Credits (Both credits must be in the same language) |
| Physical Education | 1/2 Credit |
| Health Education | 1/2 Credit |
| Social Studies | 3 Credits (composed of World History, U.S. History, Consumer Economics, and Government) |
| Science | 3 Credits (composed of Biology, Chemistry or Physics, and a Science Elective) |
| Math | 4 Credits (composed of Algebra 1, Algebra 2, Geometry, and a Math Elective) |

CLASS OF 2017

ACADEMIC GRADUATION REQUIREMENTS HURON HIGH SCHOOL

27.5 CREDITS REQUIRED TO GRADUATE

| <i>SUBJECT</i> | <i>GRADUATION REQUIREMENT</i> |
|------------------------------|--|
| Art | 1 Credit |
| English/Language Arts | 4 Credits |
| Foreign Language | 2 Credits (Both credits must be in the same language) |
| Physical Education | 1/2 Credit |
| Health Education | 1/2 Credit |
| Social Studies | 3 Credits (composed of World History, U.S. History, Consumer Economics, and Government) |
| Science | 3 Credits (composed of Biology, Chemistry or Physics, and a Science Elective) |
| Math | 4 Credits (composed of Algebra 1, Algebra 2, Geometry, and a Math Elective) |

CLASS OF 2018

ACADEMIC GRADUATION REQUIREMENTS HURON HIGH SCHOOL

27.5 CREDITS REQUIRED TO GRADUATE

| <i>SUBJECT</i> | <i>GRADUATION REQUIREMENT</i> |
|------------------------------|--|
| Art | 1 Credit |
| English/Language Arts | 4 Credits |
| Foreign Language | 2 Credits (Both credits must be in the same language) |
| Physical Education | 1/2 Credit |
| Health Education | 1/2 Credit |
| Social Studies | 3 Credits (composed of World History, U.S. History, Consumer Economics, and Government) |
| Science | 3 Credits (composed of Biology, Chemistry or Physics, and a Science Elective) |
| Math | 4 Credits (composed of Algebra 1, Algebra 2, Geometry, and a Math Elective) |

CLASS OF 2019

ACADEMIC GRADUATION REQUIREMENTS HURON HIGH SCHOOL

27.5 CREDITS REQUIRED TO GRADUATE

| <i>SUBJECT</i> | <i>GRADUATION REQUIREMENT</i> |
|------------------------------|--|
| Art | 1 Credit |
| English/Language Arts | 4 Credits |
| Foreign Language | 2 Credits (Both credits must be in the same language) |
| Physical Education | 1/2 Credit |
| Health Education | 1/2 Credit |
| Social Studies | 3 Credits (composed of World History, U.S. History, Consumer Economics, and Government) |
| Science | 3 Credits (composed of Biology, Chemistry or Physics, and a Science Elective) |
| Math | 4 Credits (composed of Algebra 1, Algebra 2, Geometry, and a Math Elective) |

MICHIGAN COLLEGE PRESIDENT'S COUNCIL
CORE COURSE REQUIREMENTS
(Recommended for admission to a State University)

Michigan's public universities have agreed that students must meet the requirements described below to be eligible for regular admission to a four-year degree program. If you are unable to complete these requirements, you may still be considered for a four-year degree program, so you are encouraged to apply to the university of your choice.

The standards and requirements for admissions are different for each public university. Each will continue to have their own GPA and/or ACT score admission guidelines, and certain college programs may have special requirements as well. Whatever your areas of interest, you should get detailed information about specific admissions requirements from your school counselor or from the proper admissions office. In considering your potential to be a successful student, each university looks at your high school records for factors such as grade point average (GPA), test scores, special abilities, scholastic activities, and work experience.

| | |
|---------------------------------|---|
| <u>English</u> | 4 years |
| <u>Mathematics</u> | 4 years , including Algebra 1, Algebra 2, and Geometry |
| <u>Sciences</u> | 3 years , including Biology and Chemistry |
| <u>Social Sciences</u> | 3 years (1 year each of World and American History strongly recommended) |
| <u>Fine Arts</u> | 1 year (2 years strongly recommended) |
| <u>Foreign Language</u> | 2 years (3 years strongly recommended) |
| <u>Computer Literacy</u> | 1 year (strongly recommended) |

General Information

CREDITS: Credit is given for each course you take and pass during high school. For each class you successfully complete each trimester, you earn ½ credit. This means that you can earn up to 2.5 credits each trimester and up to 7.5 credits each year you are in school. Please refer to the graduation requirements for the specific number of credits you need to earn your diploma and graduate from Huron High School.

ATHLETICS & NCAA: Athletes who hope to attend college and play sports have special requirements that must be met. If you hope to play sports in college, you should plan to have a “B” average for your required classes. Talented athletes must also be able to show that they can do well in school.

To be NCAA eligible to participate in college sports, you must meet certain eligibility requirements. These requirements change frequently, and it is important to keep informed. For the most up to date requirements, as well as registration information, visit the NCAA Eligibility center at:

www.eligibilitycenter.org

Any student who is interested in becoming a college athlete should visit the above NCAA website as early as their freshman year. Familiarizing yourself with the requirements and eligibility process will assist you in choosing classes to ensure NCAA eligibility.

OPTIONAL TESTING:

PSAT/NMSQT: The Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test will be given annually at Huron High School in October. The test is designed to help prepare students for the SAT examination, and serve as a qualifying test for a variety of scholarship programs. Students must register with the counseling office and pay a fee.

SAT: The Scholastic Aptitude Test is an exam used for college admissions and scholarship purposes. It is available to juniors and seniors. This exam is desired by many out-of state colleges. It is not recommended that students take this exam prior to their junior year. Students can check with the counseling office or www.collegeboard.com/student for exact test dates and registration information.

ACT: The ACT is an exam used for college admissions and scholarship purposes. It is the most widely used college entrance exam in Michigan and throughout the Midwest. Any student can take the ACT as often as they desire (at the student's expense) on one of the national Saturday test dates in an effort to improve their scores. It is recommended that this exam is not taken prior to your junior year. Students can check with the counseling office or www.actstudent.org for test dates and registration information.

ADVANCED PLACEMENT (AP) EXAMINATIONS: These exams are administered to students during the school day each spring. Many colleges grant credit for qualifying scores on these exams. Announcements will be made by the counseling office regarding registration for these exams. There is a fee for each subject area test taken. Enrollment in available AP courses prior to testing is recommended, and those enrolled in AP courses are strongly encouraged to take the appropriate AP subject area exam.

THE CAREER PATHWAYS

The Career Pathways are six broad categories of careers that allow you to identify a main interest area and explore different career options within the pathway of interest. Deciding which career pathway is of interest to you gives you direction and allows you to make a plan of what you will do each year of high school until you graduate. The six career pathways are as follows:

Arts & Communications

Careers related to humanities and the performing, visual, literary and media arts.

Business, Management, Marketing, & Technology

Careers related to all aspects of business including accounting, business administration, finance, information processing, and marketing.

Engineering/Manufacturing & Industrial Technology

Careers related to technologies necessary to design, develop, install or maintain physical systems.

Health Sciences

Careers related to the promotion of health as well as the treatment of injuries, conditions and disease.

Human Services

Careers in child care, civil service, education, hospitality and the social services.

Natural Resources and Agriscience

Careers related to natural resources, agriculture, and the environment.

More comprehensive information related to the above career pathways are given on the following pages.

Arts and Communication Career Pathway

Examples of Career Options:

Writer, Journalist, Advertising, Graphic Communications, Artist, Actor, Photographer, Reporter, Musician, Interior Designer, Librarian, Editor, Speech Pathologist

Related Electives:

Yearbook, Journalism, Theatre Arts, Stagecraft, Video Production, Web Design, French, Spanish, Art, Art Portfolio, Drawing, Computer Applications, Marching Band, Concert Band

Related Vocational Courses:

Graphic Communications, Video/Applied Communications

Business, Management, Marketing & Technology Pathway

Examples of Career Options:

Accountant, Buyer, Real Estate Agent, Stockbroker, Marketing Manager, Bank Teller, Cashier, Secretary, Word Processor, Financial Advisor, Sales Engineer

Related Electives:

Accounting, Marketing, Computer Applications, Computer Programming

Related Vocational Courses:

Marketing, Information Technology

Engineering/Manufacturing & Industrial Technology

Examples of Career Options:

Engineer, Architect, Drafter, CNC Technician, Mechanic, Electrician, Auto Body Repair, Carpenter, Robot Operator, Computer Repair, Millwright, Cabinetmaker

Related Electives:

Woodworking, Drafting, Architectural CAD

Related Vocational Courses:

Architectural Drafting and CAD, Auto Collision Repair, Auto Service Technology, Aviation Technology, Construction/Building Maintenance, Construction Trades, Engineering Drafting, Furniture and Cabinet Making, Mechatronics, Heating/Ventilation/Cooling, Welding.

Health Sciences Pathway

Examples of Career Options:

Biologist, Dentist, Pharmacist, Nurse, Dental Hygienist, Respiratory Therapist, Veterinarian, Physician, Chiropractor, Nutritionist, Nuclear Technologist

Related Electives:

Anatomy and Physiology

Related Vocational Courses:

Health Occupations, Dental Occupations

Human Services Career Pathway

Examples of Career Options:

Teacher, Psychologist, Probation Officer, Chef, Clergy, Social Worker, Flight Attendant, Cosmetologist, Waiter, Custodian, Receptionist, Physical Trainer, Detective

Related Electives:

Psychology, Human Behavior, Law

Related Vocational Courses:

Cosmetology, EMT and Criminal Justice, Hospitality, Introduction to Education

Natural Resources and Agriscience Career Pathway

Examples of Career Options:

Forester, Marine Biologist, Environmental Scientist, Meteorologist, Park Ranger, Farmer, Fisherman, Lawn Service Worker, Livestock Inspector, Golf Greenskeeper, Gardener

Related Electives:

Environmental Science, Advanced Environmental Science

Course Offerings by Department

- **The Arts**
- **Business Education**
- **English Language Arts**
- **Industrial Technology**
- **Foreign Languages**
- **Mathematics**
- **Music**
- **Physical Education**
- **Science**
- **Social Sciences**
- **Special Courses**
- **Career/Technical Courses (DCTC)**

THE ARTS

011 BASIC ART A – ELEMENTS OF DESIGN

This is intended to be the first trimester of the two trimester basic art class. This class is an introduction to the visual arts. It will include drawing, design, painting and a variety of media. Students will have the opportunity to explore creative potential and develop skills. This class includes bookwork and requires weekly homework.

012 BASIC ART B – PRINCIPLES OF DESIGN (Prerequisite: Basic Art A)

This is the second trimester of basic art that is an introduction to the visual arts. It will include drawing, design, painting and a variety of media including ceramics. Students will have the opportunity to explore creative potential and develop skills. This class includes bookwork and requires weekly homework.

021 DRAWING A -- ELEMENTS OF DESIGN

This is intended to be the first trimester of the two trimester Drawing class. For the hobbyist or beginner, this one trimester class takes a closer look at the fundamentals of drawing. Aimed at improving skill and knowledge, this class is for those who can concentrate on task. This course includes bookwork and requires weekly homework.

022 DRAWING B – PRINCIPLES OF DESIGN (Prerequisite: Drawing A)

This is the second trimester of Drawing that takes a closer look at the fundamentals of drawing. Aimed at improving skill and knowledge, this class is for those who can concentrate on task. This course includes bookwork and requires weekly homework.

031 ADVANCED ART 1: DRAWING, DESIGN AND CONTEMPORARY CRAFT (Prerequisite: Basic Art A and B or Drawing A and B)

This class offers a specialized independent structure for experienced students who wish to continue in Art. Utilizing a variety of media in two and three-dimensional projects, each student spends time working on group and individual projects. This course requires some research and homework.

032 ADVANCED ART 2: PORTFOLIO BUILDING (Prerequisite: Advanced Art 1)

Provides students the opportunity to continue building their portfolio and further develop their ability. This class offers a specialized independent structure for experienced students who wish to continue beyond Advanced Art 1. Utilizing a variety of media in two and three-dimensional projects, each student spends time working on group and individual projects. This course requires some research and homework.

041 VIDEO PRODUCTION A (Prerequisite: Sophomore status)

Students will begin this course by learning all of the equipment, and then move into completing one or two teacher directed projects with the equipment. Students will have hands-on opportunities to use cameras, editing equipment, duplicating equipment and basic video equipment. However, this course is designed to teach the essentials of video production and the Video Production B course is designed to use the skills learned here to complete projects.

042 VIDEO PRODUCTION B (Prerequisite: Must have passed Video Production A with a "C" or higher)

Students will have daily hands-on opportunities to use cameras, editing equipment, duplicating equipment and basic studio equipment. They will create a variety of projects (including: interview, instructional, sports, PSA, news program, drama and music video) using the skills they learned in Video A.

045 VIDEO PRODUCTION II (Prerequisite: Must have Junior or Senior status and MUST have completed Video Production A AND B with a "C" or higher.)

Students will begin this course by completing a two-week orientation schedule of weekly show production. By the completion of class, students will have produced a weekly show, independently learned the final cut pro system, and created a marketable or published video production project. Students will have hands-on opportunities to use cameras, editing equipment, duplicating equipment and basic studio equipment.

This class is designed to be taken for two or three trimesters. If the student wishes to take the class for two trimesters, it is necessary to write the above course number on the course selection twice. If the student wishes to take the class for the entire year, the course number must be written on the course selection sheet three times.

051 INTRODUCTION TO THEATRE ARTS

This one trimester course is an introduction to the theatre: acting, technical, and critical. It is achieved through introductory means of acting and improvisational scenes within the classroom, observation of other plays and performances, and many other in-class assignments dealing with the technical areas such as improvisation, movement, costumes, makeup, etc. Students will learn the basic terms and concepts through vocabulary and practical study. Participation in some form of a presentation will be required on a regular basis, but students begin slowly to build up their confidence before a larger performance will be assessed. It is a wonderful class as a precursor to Public Speaking, or for anyone who plans on going into a job that requires time in front of an audience. This class utilizes some time outside of the assigned class hour for rehearsals, memorization, and obtaining materials for use in the classroom setting. Time will be devoted to the development of acting and performance skills, technical theatre, theatre etiquette, overcoming stage fright, monologue development, and group acting techniques.

Can be taken for one, two, or three trimesters per year, but most students would be most interested in moving on to the Theatre Arts Lab after the introductory class has been taken once for further exploration of the craft.

052 THEATRE ARTS LAB/MUSICAL THEATRE (Prerequisite: Introduction To Theatre Arts with a "C" or better, and/or preapproval from Director)

This one trimester course has been designed for the theatre student who has successfully completed the introductory theatre course, and would like to further explore the craft of acting and musical theatre for our school's live performance in the spring. This course will focus on the execution of the spring musical, including acting/line memorization, choreography, movement and vocal performance. After school commitments will be needed as we get closer to the actual production. Group and individual performance scores will be assessed throughout the trimester. In addition to the rehearsal and preparation for the musical, students will also study the history of drama, professional theatre acting techniques and terminology, monologue/audition preparation and musical theatre as an independent art form. Stage make-up, props and costuming will be highlighted as well. Performance analysis and critiques will be used as a learning tool whenever possible. This is an ideal and mandatory course for the student who is ready to commit to the large undertaking of our musical theatre performance production. All students will play a role in the show, but it is at the director's discretion what parts/roles will be delegated based on auditions and class commitment. Please see Ms. O'Brien with any further questions or concerns.

**This class requires a mandatory performance and rehearsal commitment at the end of the trimester and will involve after school additional hours. See instructor for potential extra-curricular scheduling conflict resolutions.*

055 INTRODUCTION TO STAGECRAFT

This trimester course will allow the student an opportunity to become more aware of the technical complexities which surround a production. This includes the setting, scenic design, costuming, lights, and sound of a play or production. The roles of stage manager and technical crew will be studied, with opportunities for active participation. The student will have the chance to work predetermined hours per marking period outside the classroom assisting on technical application for productions in the auditorium, the theatre arts class, school plays, or events. The course begins with an overview of the theater and the backstage areas, types of theaters/sets, necessary terms/concepts/supplies, preparation for a production schedule, set renderings, and then concludes with *assisting* in building some type of real set. Each student will be encouraged to express themselves as an artist, with regard to, and consideration for the limitations of a production. Due to the nature of this course, students should be aware that hands-on building will not begin until they are enrolled in the lab, but many hands-on activities are used to learn the fundamental basics of construction and set design.

Members of the Auditorium Technical Crew are encouraged to enroll in this class. In order to build the sets, you must enroll in this course first before you can take the lab. It is highly recommended that this course is only taken once, and then you would progress to the next level.

056 ADVANCED STAGECRAFT (Prerequisite: Introduction to Stagecraft with a "C" or better)

This trimester course is designed for students who are interested in a hands-on opportunity for building, design, and construction of stage sets. Students will be expected to design set renderings and concepts for theatrical productions, and then utilize their time in class to build and construct the sets. They will be exposed to a variety of painting and creative building concepts. Students will be working with the drama club plays and other various performances from start to finish, including being responsible for play selection, advertisements, public relations, auditorium management, technical management, and striking of sets post-performance.

Please note that the lab may be taken as many times as you would like once you have taken the introductory course, but for practical purposes, the advanced course (part B), will only be offered during trimesters A and C. Anyone interested in pursuing an independent study during 2nd trimester in this discipline however, should see the instructor for special arrangements.

429 COMPUTER PROGRAMMING B**(Prerequisite: Computer Programming A)**

This course is a continuation of Computer Programming A and is designed to be taken in the same year. It includes an in-depth study of structured programming, logic constructs, and logic flow representation. It focuses on the design stage of computer program development, algorithm development and coding of programs using high level language such as Java. Students will diagram solutions to a variety of computer problems using strategies for problem solving. These solutions will be coded, executed, and debugged.

423 MOBILE APPS DEVELOPMENT A**(Prerequisite: Computer Applications B)**

Students in this course will learn to design apps for mobile devices and tablets. This course is project oriented, and examines the principles of mobile application design and development. Students will learn application development on different platforms. Students are expected to work on projects that produce a professional quality mobile application. This course is designed to be taken as a two trimester course with Application Development B. *Computer Programming A and B are recommended, but not required, prior to taking this class.*

424 MOBILE APPS DEVELOPMENT B**(Prerequisite: Application Development A)**

This course is a continuation of Mobile Apps Development A. Students will continue to learn the principles of mobile application and development on different platforms.

**431 MARKETING I
432****(Prerequisite: Junior or Senior status)**

This two trimester course prepares individuals to perform marketing and management functions and tasks that can be applied broadly in any marketing environment. Principles, practices, and procedures are taught without particular identification with a specific kind of business, product, or service.

453 MARKETING II - SCHOOL STORE (Prerequisite: Marketing I; Junior or Senior status with Instructor approval)

This course enables the student to apply and practice competencies introduced in Marketing I. The Marketing II "laboratory" is a student-operated school store, an actual business operation. Students operate and manage the store, which sells merchandise to students, faculty, and the general public. This could lead to Cooperative Employment, which is supervised part-time employment for school credit and pay.

460 CO-OP (Prerequisite: Senior status; approval of the Co-op Director and Counseling)

This course offers students an opportunity to get work experience in a vocational/technical area of interest to the individual. A co-op co-coordinator will work with each student to find an employment opportunity in an area where the student's skills, interests, and educational training can be useful. For example, for one who excels in creative writing, English, and Journalism, working on a newspaper might be appropriate. In most instances, co-op students are released early from school to go to their jobs. Employers agree to train them in the field in which they are studying in school. Students must have transportation and must be able to work a minimum of 15 hours per week. Students must maintain good attendance, punctuality, and grades while working and attending school.

ENGLISH

811 ENGLISH 9A

This course provides study in the areas of grammar, basic writing techniques, library skills, and literature. Special attention will be paid to spelling, grammar, and the study of various forms of literature including the short story, novel, and drama. Students will complete the reading of two novels and the play *Romeo and Juliet*. The two major papers are the personal narrative and a persuasive paper.

812 ENGLISH 9B

This course provides study in the areas of grammar, basic writing techniques, library skills, and literature. Special attention will be paid to spelling, grammar, and the study of various forms of literature including the short story, novel, and drama. Students will read two novels and the Epic Poem *The Odyssey*. The two major papers are the comparison/contrast and a research paper.

821 ENGLISH 10 A (Prerequisite: Sophomore status)

This trimester course is designed to help students develop and improve their skills in English acquired in 9th grade. During this class, students will use reading, listening, speaking, and writing skills to analyze various types and styles of literature, study the techniques used by effective authors, and incorporate various writing techniques within their own work.

822 ENGLISH10 B (Prerequisite: Sophomore status)

This trimester course is designed to help students develop and improve their skills acquired in English 10A. During this class students will use reading, listening, speaking, and writing skills to analyze various types and styles of literature, study the techniques used by effective authors, and incorporate various writing techniques within their own work.

825 CLASSIC NOVELS (Prerequisite: Junior or Senior status)

This trimester course is designed for college bound students who wish to supplement their exposure to classic novels beyond the established curriculum. The course will focus on classic novels from a variety of time periods and will also include various writing assignments and projects related to the interpretation of these novels. For students in grades 10 or 11, the course will count as elective credit. For Seniors, the course may count toward the required English credits or be taken as an additional elective credit.

847 GREEK MYTHOLOGY (Prerequisite: Junior or Senior status)

This trimester course is designed as an introduction to Greek Mythology. This course is for students who are interested in a thorough study of classical mythology and all of the ways it has influenced Western culture. Students will first become familiar with all of ancient Greece, major gods and goddesses, heroes and monsters of classical mythology, and then be able to apply the knowledge in the writing of a myth or play or the teaching of a group lesson. For Juniors, the course will count as an elective credit. For Seniors, the course may count toward the required English credits or be taken as an additional elective credit.

831 ENGLISH 11 A (Prerequisite: Junior status)

This trimester course is designed as an overview of British Literature and related supplemental materials. The class will analyze classic to contemporary pieces of British literature with special emphasis on historical context and analysis of literary devices and author style. We will read a variety of genres including the novel, short fiction, drama, poetry and non-fiction. Students will complete assignments to make modern connections to classic texts and study universal themes in literature. Writing in this course will consist primarily of literature based assignments, with a focus on literary analysis.

832 ENGLISH 11 B -- WRITING (Prerequisite: Junior status)

The goal of this trimester course is to increase student competence in the area of writing. Several different genres of writing will be explored. Written pieces are viewed as the result of a process that can be quite unique for each student. This course will also address that writing must always have a clear purpose and specific audience, for this affects the style and tone of each piece. Finally, writing is something that can be creative and exciting when students are encouraged to use their own ideas and voices, and when they pursue topics that are of interest to them. Topics explored are: writing as a process, persuasive writing, expository writing, research skills, multi-genre writing, grammar and sentence structure, vocabulary.

841 PUBLIC SPEAKING (Prerequisite: Senior status) REQUIRED FOR ALL SENIORS

This one trimester course is required of all seniors, and is designed to teach and increase the basic and advanced skills of modern-day public speaking, and audience interaction. Key objectives of the course are: verbal and non-verbal communication, awareness of diversity concerning politically correct speech, professional vs. casual speech, gaining confidence in presenting to the public, the advantages of using appropriate visual aids, developing strong messages and supporting them with detail, correct methods of delivering formal and informal speeches, making good uses of transitions, knowing your audience and keeping them engaged, the proper uses of outlines and note cards/versus the key elements of a memorized speech, and key tools in achieving success with speaking in the workplace and on the collegiate level.

845 CONTEMPORARY LITERATURE and CREATIVE WRITING (Prerequisite: Sophomore, Junior or Senior status)

The purpose of this one trimester course is twofold: first, to expose the student to contemporary fiction and non-fiction, and second, to give the student an opportunity to develop creative writing skills. Students will have the opportunity to choose their own reading as well as read selections with the rest of the class. A variety of genres will be studied, including short fiction, personal/memoir, and poetry. Since this is a creative writing course, it will rely heavily on peer response and sharing of work. All students will be expected to both share work of their own, and be supportive of the work of others.

846 SCIENCE FICTION (Prerequisite: Junior or Senior status)

This one trimester course will allow students to develop an appreciation for the literary genre of science fiction. The course will cover short stories, novels, and cinema. There will be elements of writing and analyzing the stories that are covered, along with examining how current science fiction movies contribute to the overall culture of science fiction.

828 YOUNG ADULT LITERATURE (Prerequisite: Sophomore, Junior or Senior status)

This trimester class is designed for students who enjoy reading young adult literature based on topics and issues that are related to teens and their lives. Novels will be studied as a class as well as in small groups and independently. Projects and writing assignments will be related to the literature studied. Grade level: 10-12. For students in grades 10 or 11, the course will count as an elective credit beyond the established requirements. For seniors the course may count toward the required senior English credits or be taken as additional elective credit.

893 ADVANCED PLACEMENT ENGLISH (Prerequisite: Senior status or having completed all Junior English requirements and signed approval form turned in to the AP instructor. Classic Novels highly recommended)

This three trimester course is designed for seniors with advanced skills in the areas of literature and composition. Students will read and write extensively, as well as engage in dialogue with classmates about the texts studied. Public speaking will also be incorporated into the class to meet the senior requirement. A variety of critical approaches will be used in the analysis of challenging literature, and students will be expected to skillfully express the results of their analysis through class discussion, writing, and timed essay responses. The level of difficulty will be comparable to that of college level course work, and students will be expected to complete a summer reading list in preparation for the course. Students will be admitted to the course upon teacher recommendation and will be expected to maintain the highest standards of academic discipline. While the primary focus of this rigorous course is to prepare students for success at the college level, they may, having improved their reading and writing skills, elect to take the Advanced Placement examination in May. Successful completion of the examination will allow students to earn college credit as accepted by their chosen college or university.

860 YEARBOOK

This course is designed to teach the skills necessary to produce the school yearbook, which offers a complete record of an entire school year. The year begins by planning the coverage for the school year and designing a unifying theme for the book. Students will study journalism including layout and design techniques, writing and editing copy, headlines and picture captions. This course provides the study of and practice in gathering and analyzing information, interviewing, note taking and photography. Students will learn strategies of planning, marketing (ad sales) and distribution of the yearbook. Students will learn proofing strategies and work independently with photographers. At times, deadlines require that staff members work after school and/or on weekends. Students will learn good work habits and are responsible for all phases of yearbook publication.

INDUSTRIAL TECHNOLOGY

711 DRAFTING I

712

The purpose of this two trimester course is to introduce students to basic aspects of the drafting industry. Students will learn accepted drafting skills by the completion of actual working drawings. Students should have a good understanding of basic math skills. Specific objectives to learn include: measurement, proper lettering and dimensioning techniques, orthographic drawing, sketching, proper placement of drawings, section views, pattern development, perspective drawing, principles of design, proper use of tools, and proper line quality.

715 DRAFTING II (Prerequisite: Drafting I)

716

The purpose of this two trimester course is to have Drafting 1 students build upon the skills they have learned by completing more complex mechanical working drawings. Students will be using both traditional board drafting as well as computer aided drafting (CAD) methods to complete drawings. Students must have successfully completed Drafting 1 and have the instructor's permission to enroll in this course. Specific objectives to learn include: proper usage of CAD software, proper use of a computer, orthographic drawing, sketching, proper placement of drawings, section views, perspective drawing, principles of design, proper use of tools, proper lettering and dimensioning techniques, proper line quality, and pattern development.

721 INTRODUCTORY WOODWORKING A and B

722

The purpose of this two trimester class is to introduce students to basic woodworking skills. Safety and quality will be stressed as integral parts of the woodworking experience. Students will also be expected to meet the high expectations set forth in this class. Students will learn basic woodworking skills by the completion of actual projects. Students must pay for all projects to be taken home. Specific objectives of the class include: safety and the safe operation of machines, measurement to plan and lay out woodworking projects, properties and characteristics of common wood species, different types of joinery and the uses/advantages of each, proper uses of different chemical and mechanical bonding methods, proper material preparation and finishing techniques, and proper construction methods.

725 ADVANCED WOODWORKING LAB (Prerequisite: Introductory Woodworking A and B)

The purpose of this class is for students to continue to improve their woodworking skills learned in previous classes. Safety and quality will be stressed as integral parts of the woodworking experience. In order to succeed, students will be expected to meet the high expectations set forth in this class. All students will be given the opportunity to produce projects of their own choice, and are expected to do so. Advanced Woodworking Lab students will design advanced projects, draw them to scale, and plan methods of construction and finishing using pre-made plans. Students must pay for all projects to be taken home.

This one trimester class can be taken repeatedly

723 WOOD CARVING (Prerequisite: None)

This class will introduce students to the art of carving wood. Emphasis will be placed on the safe and proper use of wood carving tools. These tools include extremely sharp knives and gouges. Areas of study will be relief carving, chip carving, figure carving (carving in the round), sculpture and power carving. The type of carving will depend upon the maturity and skill level of each student. All students will be expected to work in a safe manner with maturity in order to participate in wood carving. There is some financial responsibility with this class, as students will need to purchase materials for their carving projects.

FOREIGN LANGUAGES

611 SPANISH I

612

This two trimester course involves systematic development of basic conversation and grammar skills used in a variety of circumstances to develop elementary fluency. Students will learn to appreciate the prominent position of Spanish among world languages and especially its importance as a second language in the United States.

621 SPANISH II (Prerequisite: Spanish I or its equivalent)

622

This two trimester course is a continuation of first year Spanish and is designed for those students who wish to increase their knowledge and appreciation for the Spanish language and Hispanic culture. Special emphasis is placed on expanding vocabulary and grammatical functions. During the first semester, an emphasis will be put on current events in Hispanic countries with reports; and in the second semester a journal in Spanish will be kept. Class will be conducted, as much as possible, in Spanish; and small groups will be used frequently to work on dialogues, skits, and projects which promote speaking.

631 SPANISH III (Prerequisite: Spanish II or its equivalent)

632

Spanish III will emphasize the practice of Spanish as the classroom language with greater fluency than in the previous year, while teaching upper level grammar as a continuation of the Spanish II text. In addition, students will have the opportunity to appreciate Spanish and Latin American culture. This is a two trimester course.

641 SPANISH IV (Prerequisite: Spanish III)

642

In addition to the continued development of accurate grammatical production, this course will be centered on the development of communicative competence. Students will be evaluated on their use of oral Spanish in the classroom. Students will also continue to be evaluated on projects, journal entries, writing assignments and tests, as in the Spanish III curriculum. This is a two trimester course.

615 FRENCH I

616

This two trimester course will focus on developing skills in the four areas of language acquisition: reading, writing, listening, and speaking. Students will learn basic grammar structures concentrating on vocabulary, verbs, and sentence structure. Furthermore, students will gain a cultural appreciation for contemporary France and understand the importance of Francophone culture in today's global society.

625 FRENCH II (Prerequisite: French I or its equivalent)**626**

This two trimester course is a continuation of French I, allowing students to further improve their reading, writing, speaking, and listening skills. Students will explore more advanced grammatical structures such as the past tense and future tense of verbs. Structures of French I will also be revisited. Culturally, this course will focus more specifically on the city of Paris, its monuments, museums and contribution to French society. In addition, the impressionist artistic movement will be studied in depth.

635 FRENCH III (Prerequisite: French II or its equivalent)**636**

French III will emphasize the practice of French as the classroom language with greater fluency than in the previous year, while teaching upper level grammar as a continuation of the French II text. French history, culture and civilization will be taught using contemporary French films. This is a two trimester course.

645 FRENCH IV (Prerequisite: French III or its equivalent)**646**

This two trimester course is based on independent study with teacher guidance. Students will develop advanced grammatical skills in the language and continue improving in the area of writing, including the writing of a weekly journal. In addition, students will be required to research and present "exposes", short presentations in PowerPoint, regarding any topic of interest related to French civilization.

MATHEMATICS

211 ALGEBRA I (Prerequisite: Teacher recommendation)

212

This two trimester course is designed for students who have mastered all the basic math skills. It will introduce students to algebraic terms, concepts, procedures, applications, and graphing. As a foundation course, it prepares students for Algebra II, Geometry, and higher levels of science.

218 ALGEBRA II (Prerequisite: Algebra I credit)

219

This class prepares students for Pre-Calculus.

This two trimester course follows the content of Algebra I. This course extends the topics first seen in Algebra I and provides advanced skills in algebraic operations. Additionally, linear and quadratic functions and relations, conic sections, exponential and logarithmic functions, graphing, and sequences and series will be explored. This class prepares students for Pre-calculus and high levels of science such as Physics and Chemistry.

215 Algebra II CA (Prerequisite: Algebra I credit and teacher recommendation)

216

This class prepares students for Applied Math.

This two trimester course builds upon the content of Algebra I. This course reviews and extends the topics first seen in Algebra I and provides additional skills in algebraic operations, linear and quadratic functions and relations, exponential and logarithmic functions. Graphing data, along with introducing sequences and series will also be covered.

221 GEOMETRY CA (Prerequisite: Algebra I credit and teacher recommendation)

222

This class prepares students for Algebra II CA.

This two trimester course will introduce students to geometric terms, concepts and applications, and how these relate to everyday living.

225 GEOMETRY (Prerequisite: Algebra I credit)

226

This class prepares students for Algebra II.

This two trimester course will introduce students to geometric terms and concepts. This course develops a structured mathematical system employing both deductive and inductive reasoning. It includes plane, spatial, coordinate, and transformational geometry. Algebraic methods are used to solve problems involving geometric principles. This course requires a high degree of logical thinking to perform rigorous geometric proofs.

231 PRE-CALCULUS (Prerequisite: Algebra II and Geometry credit)

232

(If credit was earned at the CA level, teacher recommendation required)

This two trimester course is intended for students who have completed Algebra I, Geometry, and Algebra II and would like a solid preparation for college mathematics. Topics from all families of functions, such as; a study of polynomial, rational, exponential, logarithmic and trigonometric functions, inverse and second degree relations and their graphs are covered in-depth during the first trimester of the class. Trigonometry is covered thoroughly during the second trimester.

241 CALCULUS (Prerequisite: Pre-calculus credit)
242

This two trimester course is intended for Seniors with a solid background in math who wish to prepare themselves for the college math placement test. Topics include rational, real and complex numbers, polynomial functions, algebraic functions, exponential functions, rational functions, quadratic functions, linear functions, linear and quadratic inequalities, factoring, graphing, permutations, combinations, and probability.

293 AP CALCULUS (Prerequisite: Pre-calculus credit and teacher recommendation)

Advanced Placement Calculus consists of a full year of work in calculus and related topics, comparable to courses in colleges and universities. The course covers derivatives, curve sketching, definite and indefinite integrals, area, volume, transcendental functions, vector analysis, solid geometry, partial differentiation, and multiple integrals. This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, trigonometry, analytic geometry, and elementary functions. Students are required to have a graphing calculator.

251 STATISTICS (Prerequisite: Algebra 1, Geometry, and Algebra II credit)
252

This two trimester course is an introduction to the study of probability, interpretation of data, and fundamental statistical problem solving. The course will cover basic statistical concepts that will prepare the student to take a college-level statistics course in the future. Students will explore and analyze data by observing patterns or the absence of patterns, interpret information from graphical and tabular displays, apply appropriate statistical models to infer information from data, and learn to use technology in solving statistical problems.

205 APPLIED MATHEMATICS (Prerequisite: Junior or Senior status)
206

Applied math is a broad, technically oriented course that provides students with a foundation for more education and training in career paths. The course combines basic principles of Algebra and Geometry with closely integrated hands-on experiences. This class is two trimesters long.

207 MATH REASONING A & B (Prerequisite: Senior status or teacher recommendation)
208

This two trimester course introduces topics in math reasoning, problem solving and theory. Topics in part 1 include: Problem Solving & Critical Thinking, Set Theory, Logic, Sequences & Series and Mathematical Reasoning. Topics in part 2 include: Personal Finance, Counting Methods & Probability Theory, Statistics, and Graph Theory. Reasoning from known facts to reach a logical conclusion is central to mathematics and is essential for successful problem solving in almost all aspects of life.

261 ROBOTICS I

This one trimester course provides an introduction to robotics for students with no programming background using NXT kits. Students will learn to construct, control, and program these robots through investigative and exploration activities. Research projects will expose the students to the engineering process. This is not a math credit.

262 ROBOTICS II

This one trimester course provides a continuation of Robotics I using NXT kits. Students will construct, control and program robots through investigative and exploration activities. Research projects will expose students to the engineering process. This is not a math credit.

NOTE: IT IS RECOMMENDED THAT ALL STUDENTS TAKING A MATH CLASS HAVE THEIR OWN GRAPHING CALCULATOR.

MUSIC

080 MARCHING BAND (1st Trimester) (Prerequisites: Previous musical experience and attendance at all summer rehearsals.)

In this 1st trimester class, students will become familiar with and learn to move to music. Students will use marching techniques to provide movement, and will also learn how composers utilize specific musical elements to create music to which the audience is expected to move. Historical study will uncover the importance of marching bands during the early 20th century, as well as how such ensembles influenced the form and technical aspects of the American concert march. Students will gain historical background information about the most popular 20th century American march composers, as well as the social importance such compositions held. Students will also explore how this particular compositional style has been adapted into other genres.

Activities during this course will be to: perform the season's show at home and playoff football games, various competitions across the region, as well as participate at a selection of parades throughout the season.

086 WIND ENSEMBLE (2ND & 3RD Trimester) (Prerequisites: Previous musical experience and audition or placement into ensemble.)

This two-trimester ensemble will focus on playing with expression and technical accuracy, as well as exploration of solo and small ensemble literature. A wide variety of musical compositions will be utilized as students study the practices common across different genres of music. Students will learn how to gain information about the dynamics, style, and technical demands of a piece from how a musical phrase is constructed, as well as the technical vocabulary most often used by composers. Students will learn to portray feelings and emotions to an audience through their performance. They will also become familiar with and learn to read a score of four or more parts. Students will explore the wide variety of careers available in the field of music, as well as study contemporary popular music to discover how to produce the sounds that make this genre so recognizable.

Activities for this ensemble will include performing at various concerts, festivals, and venues throughout the duration of the course.

081 SYMPHONIC BAND (2ND & 3RD Trimester) (Prerequisite: Previous musical experience.)
082

This two-trimester ensemble will focus on playing with expression and technical accuracy, as well as exploration of solo and small ensemble literature. A wide variety of musical compositions will be utilized as students study the practices common across different genres of music. Students will learn how to gain information about the dynamics, style, and technical demands of a piece from how a musical phrase is constructed, as well as the technical vocabulary most often used by composers. Students will learn to portray feelings and emotions to an audience through their performance. They will also become familiar with and learn to read a score of four or more parts. Students will explore the wide variety of careers available in the field of music, as well as study contemporary popular music to discover how to produce the sounds that make this genre so recognizable. Activities for this ensemble will include performing at various concerts, festivals, and venues throughout the duration of the course.

084 JAZZ BAND (Prerequisite: Previous musical experience and audition or placement into ensemble.)

This three-trimester ensemble will focus on playing with expression and technical accuracy in the jazz style. This ensemble will be set up in standard big band format requiring students playing saxophone, trumpet, trombone, guitar, bass guitar, piano, and drums. A wide variety of styles will be utilized as students study the practices common across different genres of music. Students will learn how to gain information about the dynamics, style, and technical demands as they are pertinent to the jazz era. They will also learn how a musical phrase is constructed, as well as the technical vocabulary most often used by composers. Students will explore the wide variety of careers available in the field of music, as well as study contemporary popular music to discover how to produce the sounds that make this genre so recognizable. Activities for this ensemble will include performing at various concerts, festivals, and venues throughout the duration of the course.

071 CHORALE

In this trimester, students will become familiar with and learn the basics of vocal music. Students will explore a variety of vocal literature that is representative of all styles of music. Students will learn how to develop the clarity and flexibility of their voice. Students will learn how to sing in four-part harmony as a member of an ensemble, both with and without accompaniment. Solo literature will be utilized to explore the ability of the voice to produce a variety of musical textures, sonorities, and expressive qualities. Activities for this course include a multitude of performances such as singing the national anthem at sporting events as well as at least one standard concert.

073 MUSIC HISTORY

In this trimester, students will be introduced to the history of music beginning with the Baroque Period and moving forward to current music of the day. The majority of the course will be focused on music of the 20th and 21st centuries. The purpose of this course is to educate students about the different musical genres (styles) of the past and present. Using primary documents and historical chronology, students will analyze, synthesize, evaluate, compare, contrast, and argue this information. These facts can be applied to today's music to analyze where music has been, where it is, and where it soon will be, thereby creating challenges and helping solidify a foundation for future study.

076 BASIC MUSIC THEORY

In this course, students will be introduced to the basic fundamentals and building blocks of music theory. This course will prepare students to become better musicians as they will learn about pitches, note reading, clefs, major scales, natural minor scales, melodic minor scales, harmonic minor scales, basic chords, chord inversions, cadences, two-part harmonization, three-part harmonization, and four-part harmonization. This will give them the basics needed to continue into a more in-depth study of music theory and/or composition.

PHYSICAL EDUCATION AND HEALTH EDUCATION

901 PHYSICAL EDUCATION (This class should be taken in the Freshman or Sophomore year.)

This one semester course is intended to develop physical fitness as well as exposure to individual and team sports (basketball, volleyball, softball, football, etc.). This class may not be repeated once passed.

904 TEAM SPORTS (Prerequisite: Students must have passed P.E. 901, have participated in two seasons of a varsity sport related to the class, or have instructor permission. Students must acquire instructor approval for this class.)

Students will play various team sports, including basketball, volleyball, softball, team handball, and football. The class may be repeated.

906 AEROBICS/WEIGHT TRAINING (Prerequisite: None)

This fun filled class helps students get in shape and keep fit. Activities include: aerobics, dance aerobics, body sculpting, and working with weights in the weight room. This class may be repeated.

902 WEIGHT TRAINING (Prerequisite: None)

Students will learn weight room safety, lifting techniques, as well as common and anatomical muscles. Students will follow and chart a required lifting program on specified days. On non-lifting days, students will be required to participate in a team sport activity. This class may be repeated.

911 SPORTS TECH (Prerequisite: Department/Instructor Permission)

This is the most intense physical education class offered at H.H.S. It will involve extensive weightlifting workouts as well as physically intense plyometric (muscle reaction/explosiveness training) workouts. There will also be study of sports video and testing of knowledge of certain varsity sports. This is a class that is designed for only the most serious of varsity athletes.

917 HEALTH

This course describes the basic components of wellness. Topics included are conflicts and violence prevention, alcohol, tobacco, and other drugs, character education, nutrition, and sexuality education. (Health credit can be modified only if the student takes additional credit(s) beyond the required credits in English Language Arts, Math, Science, or World Languages.)

NOTE: The following may be taken to fulfill the Physical Education requirement for graduation:

901 Physical Education

904 Team Sports

906 Aerobics/Weight Training

902 Weight Training

911 Sports Tech

SCIENCE

301 BIOLOGY (Prerequisite: None) 302

This is a required course. It is a thorough study of the characteristics of life, cellular biology, genetics, evolution of organisms and ecology. Classroom activities include hands-on lab activities, problem solving skills, application of the scientific method, and relating biology to everyday experiences. Successful completion of Biology is a prerequisite for Physical Science. This class is two trimesters long.

387 AP Biology (Prerequisites: Physical Science, Biology and teacher recommendation)

This full year class is a rigorous and demanding course, which is the equivalent of an introductory college biology course. Content will be covered in more depth and greater expectations will be placed on interpretation and analysis of information than previous biology courses. In addition, statistical analysis of data and modeling of concepts will be expected. A significant amount of studying must be completed at home to allow time for discussion, labs and inquiry during class time. The College Board redesigned the curriculum in 2013, and although the amount of material has been reduced, the emphasis on scientific thinking and analytical thinking has increased. The course has been structured differently to allow for more class time for inquiry based labs and discussions. The new AP Biology curriculum encompasses 4 "Big Ideas", with Essential Knowledge and Process Skills that support each one.

311 PHYSICAL SCIENCE (Prerequisite: Sophomore status, completion of Biology) 312

This two trimester course covers the two main branches of physical science; physics and chemistry. Chemistry is the study of matter and its changes. Physics is the study of physical phenomena as described in terms of two fundamental concepts, matter and energy. Classroom activities include hands-on lab activities, problem solving skills, application of the scientific method, and relating physical science to everyday experiences. *In order to move on to Chemistry and Physics, students must either successfully complete Physical Science, or test out of Physical Science at the end of the 9th grade year. One test-out time will be scheduled during the MME; students will need to score 80% or higher on both halves of the test to successfully test out.*

341 ANATOMY AND PHYSIOLOGY 1 (Prerequisites: completion of Biology with recommended "C" grade, Sophomore status and teacher recommendation) 342

The purpose of this two trimester course is to provide a technical background to those persons seeking careers in the medical field or related areas. Classroom activities include hands-on lab activities, such as dissections, problem solving skills, application of the scientific method, and relating anatomy to everyday experiences and careers. In addition, the course provides a thorough understanding of the structure and function of the human body.

343 ANATOMY AND PHYSIOLOGY 2 (Prerequisites: completion of Anatomy and Physiology 1 A and B)

This one trimester course is an extension of Anatomy and Physiology 1 A and B. Some topics covered will include: Review of anatomical positions and body regions, Immunology with the study of diseases, their symptoms, causes and cures, as well as a unit on medical terminology. Additional topics on Digestion; how the body breaks down and utilizes nutrients with a section on nutrition, Cardiology, with additional labs that use lab quest technology, the Urinary system, with additional labs that focus on diagnostic analysis, the Reproductive system, with additional material on development, a unit on the different medical professions and what the job requirements are for each, as well as a review of all systems to prepare students for the collegiate level. There may be some additional dissection as well.

**321 CHEMISTRY (Prerequisite: Junior status.)
322**

Chemistry is a study of the composition of matter and possible changes it might undergo. Emphasis is placed on atoms, elements, compounds, molecules, and chemical reactions. Laboratory activities are designed to reinforce or clarify classroom work. Both lecture and laboratory are included. This is an introductory course which fulfills all State of Michigan required standards for chemistry. This class is two trimesters long.

**325 ACCELERATED CHEMISTRY (Prerequisite: Junior status, a minimum "B" average in the following courses: Algebra 1, Algebra II, Physical Science, Biology, and instructor approval. Geometry, Pre-Calculus recommended).
326**

Chemistry is a study of the composition of matter and possible changes it might undergo. Emphasis is placed on atoms, elements, compounds, molecules, and chemical reactions. Laboratory activities are designed to reinforce or clarify classroom work. Both lecture and laboratory are included. In addition to the State of Michigan required standards for chemistry, this course includes recommended standards to prepare students for advanced college coursework in chemistry. This class is two trimesters long.

334 AP PHYSICS 1 (Prerequisites: C+ or better in Algebra 1, Geometry, Algebra II. Pre-Calculus is recommended, but may be taken in the same year.)

AP Physics 1 consists of a full year of work in physics, comparable to an introductory level university physics course. General physics topics presented during the course closely follow those outlined by the College Board in the field of mechanics, as well as waves, sound and basic electrical circuits. Students will participate in inquiry-based laboratory explorations of these topics, as well as using physics formulas to solve mathematical problems in these areas.

337 AP PHYSICS 2 (Prerequisite: AP Physics 1)

AP Physics 2 consists of a full year of work in physics, comparable to a second-semester introductory level university physics course. General physics topics presented during the course closely follow those outlined by the College Board in fluids, thermodynamics, electromagnetism, optics and modern physics. Students will participate in inquiry-based laboratory explorations of these topics, as well as using physics formulas to solve mathematical problems in these areas.

351 ENVIRONMENTAL SCIENCE A (Prerequisite: Biology)

This class takes an in-depth look at ecology and the role humans play in the world's environment. Topics include biodiversity, conservation, population ecology and urbanization. Students will do research and work on projects that are based on current events and basic ecological principles. Students interested in careers in science, natural resource management and the environment will benefit from the course. Past projects include work with the U.S. Fish and Wildlife Service and The Detroit International Wildlife Refuge. Can be taken independently of Environmental Science "B".

352 ENVIRONMENTAL SCIENCE B (Prerequisite: Biology)

This class will focus on the Earth's natural resources and the future of energy. Students will learn about the Forestry Service and forestry management, farming, mining and oil exploration, climate change and renewable energy. Projects will deal with alternative energy, vehicle design and electric vehicles, and alternative fuels. Past projects include work with Great Lakes Recycling and the Department of Environmental Quality. Students interested in energy, alternative fuels, electric automobiles and green jobs will benefit from this course. Can be taken independently of Environmental Science "A".

361 ECOLOGY A (Prerequisite: Biology)

This course is an overview of the history, administration and application of wildlife management in the United States. Topics include habitat restoration, invasive species ecology and wildlife biology. Research and projects focus on organisms in North America. Previous work includes partnerships with the Organization for Bat Conservation and the U.S. Fish and Wildlife Service. Students interested in working for the USFWS, the Michigan Department of Natural Resources or enjoy the outdoors will benefit from this class.

371 ZOOLOGY (Prerequisite: Biology with recommended "C" or better)

372

This course is a detailed study of the Animal Kingdom. Topics of study in this class include the Latin Classification System, anatomy, physiology, and diseases of organisms from invertebrates through vertebrates. Laboratory activities will include dissection. Trimester A will include: classification, organization of kingdoms, sponges, cnidarians, worms, mollusks, arthropods, insects, and echinoderms. Trimester B will include: Classification, fish, amphibians, reptiles, birds, and mammals.

375 COLLABORATIVE RESEARCH (Prerequisite: Junior status, completion of Biology and Physical Science)

In this one trimester STEM (science, technology, engineering, and mathematics) course, student groups will design and conduct their own long-term experimental research projects, and analyze and present the results. All students will apply critical thinking skills in the design of their projects, collect data, and analyze their results as they attempt to answer their own real-world scientific questions.

SOCIAL STUDIES

501 WORLD HISTORY A

This trimester course will help students understand the history of different civilizations from the post-Roman era through the French Revolution and the push towards industrialism. It will include two comparative studies of major African and South American kingdoms, as well as the study of the evolution of western culture and society.

502 WORLD HISTORY B

This trimester course will help students understand the history of modern western civilization from the industrial revolution through the present day. It will include comparative connections to the students' lives, as well as in-depth study of major world events such as world wars. This section will also include a decade project for the students to research and present information on things like music, sports, and news about a modern decade.

531 AMERICAN GOVERNMENT (Required for graduation; Junior or Senior status)

American Government is a one trimester course that explores the three branches of government and examines the powers and functions of each branch. Students will also study the rights they enjoy as Americans found in the Bill of Rights. A comparative government unit will compare and contrast the different forms of government found in the world today.

593 AP GOVERNMENT (Prerequisite: Junior or Senior by instructor permission only)

AP Government and Politics is a highly structured, very demanding college-level course. Students are required not only to thoroughly read the college-level text but, also, to augment this material through research and reading of supplemental articles. Subsequent to that, students must critically apply the findings to the political nature of current governmental policies and analyze the ramifications of these policies.

This year long course is designed to enable students to develop a critical perspective of government and politics in the United States. The nature of the American political system, its development over the past two centuries, and how it works today are examined. Both general concepts and specific case studies are stressed.

511 UNITED STATES HISTORY (Required for graduation; Sophomore Status)

512

The mission of this two trimester class is to educate students about the country they live in and the people who have preceded them from 1865 to present. Using primary documents and historical chronology, students will analyze, synthesize, evaluate, compare, contrast, and argue this information. This purposeful information can be applied to today's challenges and help create a solid foundation for future study.

513 UNITED STATES MODERN HISTORY

This one trimester course will cover the Post WWII era to the United States' role in the world after 9/11. Students will get an in-depth look at the origins of the Cold War to its end during the Reagan administration. Students will understand the domestic policy changes of the 1960s, including the Civil Rights Movement and women's rights. Finally, students will take a look at the 9/11 terrorist attacks and the U.S. response to terrorism through domestic and international policies.

599 AP U. S. HISTORY (Prerequisite: Junior or Senior status and teacher recommendation)

The year long AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to that of a full-year introductory college course.

405 ECONOMICS (Prerequisite: Junior or Senior status)

The mission of Economics is to involve the student with purposeful activities that will provide the information and concepts essential for understanding the U.S. Economic system. Skills needed to succeed in career decision making, financial planning, and consumer spending are presented and practiced. This is a one trimester class.

**521 LAW (Prerequisite: Junior or Senior status with a 2.5 grade point average)
522**

Law is a two trimester course focusing on criminal law the first trimester and tort law the second. This class will provide students with practical legal information and problem solving opportunities that will develop within students the knowledge and skills necessary for survival in a law-saturated society. The curriculum includes case studies, mock trials, role-plays, field trips to the 33rd district court, and small group activities.

545 HUMAN BEHAVIOR (Prerequisite: Junior or Senior status)

This trimester course is concerned with how people behave in groups and how group interaction shapes their behavior. It also studies the rules, organizations and value systems which enable humans to live together. Stress is placed on cultural differences in behavior. A major survey project must be completed.

541 PSYCHOLOGY (Prerequisite: Junior or Senior status)

This trimester course is an effort to introduce the student to an overall picture of psychology. This will incorporate the influences of biology and sociology. The class also includes a study of sensation, perception, remembering, language, motivation, emotion, personality, mental disorders, and therapies. A research paper and presentation must be completed.

542 PSYCHOLOGY II (Prerequisite: Junior or Senior Status, B- or better in Psychology)

This trimester class is designed to build upon the learning from the introductory psychology class. The class will involve more in-depth research into psychological concepts and theories. Along with note taking, homework assignments, quizzes and tests, students will be expected to do extensive research assignments as well as read psychology related novels. Video will be utilized extensively in this class for demonstrative purposes. Since this class will be run under the assumption that students will be required to have a full grasp of the knowledge from the introductory class, students will be required to have held at least a B- average in Psychology to enroll.

590 AP PSYCHOLOGY (Prerequisite: Junior or Senior status and teacher approval)

The purpose of AP Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and animals. Included is a consideration of the psychological fact, principles, and phenomena associated with each of the major sub-fields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice.

The goal of AP Psychology is to provide a learning experience equivalent to that obtained in most college introductory psychology courses. Through this college-level course and the subsequent exam, you can earn college credit and/or advanced placement. Summer work will be expected.

SPECIAL COURSES

960 COLLEGE STUDY (Prerequisites: Qualifying PLAN, PSAT, or MME test score and counselor approval)

Students taking DUAL ENROLLMENT have the opportunity to earn both high school and college credit. Students will receive a "G" for college study credits which will not affect their high school GPA. Any college courses selected by students must meet all criteria set forth by the Michigan Department of Education, and be facilitated through the counselors.

950 INDEPENDENT STUDY (Prerequisites: Junior or Senior, and a completed Independent Study contract.)

Independent Study is for a student interested in and capable of pursuing a largely self-determined study area. It is to encourage self-discipline and develop techniques of research for self-education. In order to sign up for an independent course of study the following procedures must be met:

1. A specific course of study needs to be developed between teacher and student.
2. The Independent Study must be a topic not covered or offered under our present high school curriculum, or with permission of the high school principal.
3. At least 90 hours of academic work must be accomplished before any credit can be given.
4. 1/2 credit per 90 hours of work. The student will receive a letter grade for each 90 hours of work completed and approved by the teacher.
5. Students, parent, teacher, and high school administrator must agree to requirements for the Independent Study.

CAREER /TECHNICAL EDUCATION

The objective of a career technical class is to provide a very sophisticated training experience for the student while still in high school, so upon graduation, one might directly enter the labor market or continue on for advanced training in the chosen career area. Toward this end, the career technical programs have adopted the curriculum developed by the State of Michigan, which provides for training that has been identified by being necessary for each specific occupational area.

THE BELOW CLASSES ARE AVAILABLE TO JUNIORS AND SENIORS ONLY

120AT AGRISCIENCE 1/ZOOLOGY (AIRPORT)

(Prerequisite: Junior or Senior status)

This year long class includes a study of domesticated and wild animals. Areas of study include breed and species origins, systems, nutrition, genetics, disease, use and current animal issues such as animal rights and welfare. Students will have animal labs (including dissection) and activities to help them understand the animals' body and behaviors. This course will make students aware of career opportunities in the areas of animal science and production.

FFA participation is mandatory and the course has been designed for those students who want a true agriscience experience. FFA participation will develop leadership, cooperation, career and personal skills which are vital in today's world.

122AT AGRISCIENCE 2/BOTANY (AIRPORT)

(Prerequisite: Junior or Senior status)

This year long class will focus on plant parts, function, use, classification and specific forms of plant production. Practical applications in forestry, landscaping, greenhouse production, pesticides, conservation and crop production will illustrate the need and use for plants in our society and environment. Major natural resource topics of study include wildlife, forestry, soil, air, water, minerals and energy sources. This course will make students aware of career opportunities in the areas of plant science and production, natural resources and conservation. Agricultural business and marketing will also be explored.

FFA participation is mandatory and the course has been designed for those students who want a true Agriscience experience. FFA participation will develop leadership, cooperation, career and personal skills which are vital in today's world.

ARCHITECTURAL DRAFTING I AND II (AIRPORT)

(Prerequisite: Junior or Senior status)

These year long classes cover architecture and the important fundamentals that deal with basic architectural symbols used in residential construction and provide an understanding of the arrangement of the various detail sections. Students will have the opportunity to be introduced to and utilize AutoCAD and become familiar with basic to advanced computer CAD techniques. Students will complete a set of house plans. Model construction may be a possibility.

210HU AUTO BODY/COLLISION REPAIR I (HURON)

(Prerequisite: Junior status)

This one year collision repair course is designed for the student interested in auto collision as a career choice. The course utilizes the I-Car Live curriculum, which will emphasize skills for entry level jobs, including safety, basic repair techniques, paint safety, topcoat systems, HVLP spray gun technology, estimating and detailing. The instructor and the program are ASE/NATEF certified.

**212HU AUTO BODY II (Prerequisite: Senior status, Auto Body I)
(HURON)**

This course is an advanced section of the Auto Body Program. Auto Body I students who show an active interest in the Auto Body occupations are recommended by the instructor for Auto Body II. The Auto Body II course is designed for students to actually receive hands-on instruction in the repair and refinishing of the automotive body. Students will use the skills they have learned in Auto Body I and will repair automobiles with the use of estimates and repair orders. Students will develop skills to enter the auto body industry as apprentices upon completion of Auto Body Technology.

**220GB01-3 AUTO I (Prerequisite: Junior or Senior status)
(HURON)**

This one year course is designed to develop student knowledge and skills in basic automotive service and prepare students for Vocational Auto II for advanced study of automotive technology. Students will achieve proficiency in the basic knowledge and performance of automotive service assessed in accordance with NATEF (National Automotive Technician Education Federation) standards. Basic units of study include automotive electricity and electrical systems, including electronics, brakes and braking systems, steering, suspension and engine performance.

**222GB01-3 AUTO II (Prerequisite: Senior status, Auto I)
(HURON)**

Advanced study of automotive service technology is designed to further develop students' knowledge and skills. Students' learning objectives for this course are to achieve proficiency in the advanced knowledge skills that are necessary to service modern automobiles—assessed in accordance with NATEF standards. Basic units of study include automotive electricity and electronics, brakes and braking systems, suspension, steering and engine performance.

310GI *AVIATION I (WCCCD) (Prerequisite: Junior status, Counselor approval, ability to provide own transportation to MIAT (Michigan Institute of Technology), completion of Algebra with a C+ or better, acceptable school attendance and limited after-school activity.)

This course includes both hands-on as well as classroom instruction. Through the close coordination of framework and powerplant curriculum, students are prepared to enter aviation and non-aviation industries at an entry level.

312GI *AVIATION TECHNOLOGY II (MIAT – Canton) (Prerequisite: Senior status and Aviation I, ability to provide transportation to MIAT)

This course is a continuation of Aviation Technology I. It includes both hands-on, as well as, classroom instruction. Through the close coordination of framework and powerplant curriculum, students are prepared to enter aviation and non-aviation industries at an entry level. Upon completion of Aviation I and Aviation II, students are prepared and eligible to apply for licensing by the FAA as either an Airframe or Powerplant Technician.

***Students will be scheduled for 3 hours per day in their Junior and Senior years. The summer schedule will be 6 hours per day: 8:00 a.m. - 2:30 p.m. Each student will be required to complete 540 hours of the Air Science Program in conjunction with 798 hours of the Power Plant Program for a total of 1338 hours. This program is operated with the clock hour concept, in that attendance is recorded as actual time in the facility.**

**730TN CABINET AND FURNITURE MAKING I & II (Prerequisite: Junior or Senior status)
732TN (TRENTON)**

These full year courses provide entry-level and upgrade training in kitchen cabinet/furniture construction and provide students with a broad-based set of skills that are required by the wood products manufacturing industry and are directly transferable to the manufacturing sector in general. Students are introduced to the valuable skills necessary for entry-level employment or to enter post-secondary wood programs. This program also includes state-of-the-art cabinet making equipment where students will learn how to operate machines to perform the necessary tasks safely, efficiently and with a high degree of quality. This course stresses safety as the number one requirement to proper machine operation. Safe operating conditions will be described. Students are provided with entry-level and upgrade training in cabinet and furniture construction skills for making traditional face frame and European (32 mm) cabinet systems. Study includes cabinet analysis and design with the development of process route sheets, estimating and bill of materials commonly used in modern industry. Special emphasis is placed on specifications of state-of-the-art woodworking machinery, theory and lab machine safety.

**710GB CONSTRUCTION TRADES I (Prerequisite: Junior status)
(Carlson & Southgate)**

This full year course is designed to prepare students for a career in the extremely diverse Construction Trades field. This course will prepare students for job openings for entry level positions in the fields of carpentry, electrical, plumbing, masonry, concrete placement and HVAC. It will also be of great benefit to those who wish to pursue careers in the profession of architecture, civil engineering, surveying, construction supervision and management, estimating and careers as licensed builders and renovators. The instructor uses many different methods of instruction that are aimed at achieving topical knowledge, mathematical precision and physical skills, all in a way that today's students will find rewarding and fun.

**712GB CONSTRUCTION TRADES II (Prerequisite: Senior status, Construction Trades I)
(Carlson & Southgate)**

This advanced level full year course deals directly with the application of the skills and knowledge needed in construction by putting the skills and knowledge to use in real residential and commercial building projects. Even though this course is truly "hands-on" in nature, it still delivers academic level knowledge through deeper real-life applications. If students complete both Construction Trades I & II, they are awarded a senior year Mathematics credit and a Visual and Performing Arts credit. This program offers articulated credit with several colleges.

**460 CO-OP
(HURON)**

**(Prerequisite: Senior status, approval of Co-op
Director and Counselor)**

SEE BUSINESS EDUCATION SECTION FOR DESCRIPTION

**990WH COSMETOLOGY I & II
992WH
(MICHIGAN COLLEGE OF BEAUTY)**

**(Prerequisite: Junior status and attendance with
a parent at an orientation meeting before
the beginning of the course.)
Limited transportation available.**

Class is held Tuesday through Friday from 12:45 p.m. to 4:30 p.m. and on Saturday from 8:00 a.m. to 4:00 p.m. Students are required to attend class every Saturday. Students will get 750 hours of instruction. After 350 hours, students are allowed to work on clients. Students will acquire a thorough knowledge of hairstyling, haircutting and shaping, permanent waving, shampoo, hair coloring, manicuring and facial/scalp treatments. After completing 750 hours of instruction, students are eligible to take the state test to become a licensed cosmetologist.

**920WH DENTAL OCCUPATIONS I
(WOODHAVEN)**

(Prerequisite: Junior status)

This full year course is a combination of subject matter and experience designed to prepare the student to assist the dentist at chair side, to perform reception and clerical functions, and to carry out selected dental laboratory work. Objectives are: (1) to prepare high school students for full time employment in the dental office occupational area upon completion of the program or to encourage continuing education or training, (2) to provide each student with broad entry skills in a cluster of related jobs. Entry skills include job-finding skills, general work habits, and social attitudes.

**922WH DENTAL OCCUPATIONS II
(WOODHAVEN)**

(Prerequisite: Senior status, Dental Occupations I)

This full year course will be a continuation of Dental Occupations I. It will offer further training in dental assisting techniques including such procedures as radiographic techniques, denture repairs, making temporaries and dental office emergencies. It will also offer a chance for students to obtain some work-related experience.

**DIGITAL MEDIA & FILM I
(CARLSON)**

(Prerequisite: Junior or Senior status)

This full year course is a study of techniques and styles in television production with an emphasis on digital cameras and digital editing. Students will do projects such as a mini movie as a group and individually. DVD creation and Adobe Photoshop will be touched on. Quizzes and tests will be given throughout the course. Students should be able to shoot and edit video at an intermediate level by the end of class. A certificate of completion will be awarded at the end of this course. The objectives of the class are to learn I-Movie and Final Cut Pro software and professional video shooting techniques. Assessment is based on projects, tests and quizzes. Students should have an entry-level understanding of computers. Student will be required to have interaction on camera and behind the camera. They will need to purchase media for class purposes.

**DIGITAL MEDIA & FILM II
(CARLSON)**

(Prerequisite: Senior status, Digital Media & Film I)

This full year course is a study of advanced techniques and styles in television production with an emphasis on digital cameras and digital editing. Students will do projects in a small group and individually. DVD creation and Adobe Photoshop will be taught. Quizzes and tests will be given throughout the course. Students should be able to shoot and edit video at an advanced level by the end of class. Students will be required to show strong editing and shooting skills. A certificate of completion will be awarded at the end of this course. The objectives of the class are to master Final Cut Pro software and professional video shooting techniques. Assessment is based on projects, tests and quizzes. Students should already have a good understanding of computers. Students will be required to have a number of interactions on camera and behind the camera. They will need to purchase media for class purposes.

**930TN EMT/CRIMINAL JUSTICE I
(TRENTON)**

(Prerequisite: Junior or Senior status)

This course combines EMT-Medical First Responder I with Enforcement of Criminal Justice I. The first part is an introductory course to the Emergency Medical Services. It covers the minimal knowledge and skills necessary to provide lifesaving emergency care to the sick and injured. This includes a certification in Cardiopulmonary Resuscitation (CPR) for the healthcare provider. The second part overviews the criminal justice system in the United States. Topics surveyed are the history of law enforcement, the political, sociological and philosophical background of police functions, as well as the criminal courts. Constitutional problems as they relate to police functions are surveyed, and the use of recent technology in criminal justice is discussed.

The course will be taught by staff from Henry Ford Community College along with personnel from the Trenton Fire Department. Those students meeting HFCC requirements will earn college credit as well as high school credit. These credits can be applied toward an Associate degree in Paramedic, Risk Management, Fire Science, or Criminal Justice.

**933TN EMT II / CRIMINAL JUSTICE II
(TRENTON)**

(Prerequisites: Senior status, EMT I/Criminal Justice I)

This full year course is combined with the Criminal Justice course, making it a two-hour block class. This is an introductory course to the Emergency Medical Services. This course covers the minimal knowledge and skills necessary to provide lifesaving emergency care to the sick and injured. This includes a certification in CPR for the Healthcare Provider. The Criminal Justice course overviews the criminal justice system in the United States. Topics surveyed are the history of law enforcement, the political, sociological and philosophical background of police functions and the criminal courts. Constitutional problems as they relate to the police function are surveyed and the use of recent technology in criminal justice is discussed. Students meeting Henry Ford Community College requirements will earn college credit as well as high school credit. These credits can be applied toward an Associate degree in Paramedic, Risk Management, Fire Science or Criminal Justice.

**820FR ENGINEERING DRAFTING I & II
(FLAT ROCK)**

(Prerequisite: Junior or Senior status)

Engineering Drafting (using CAD) is a course designed as an introduction to computer graphics using the AutoCAD software. Students will learn to use the computer components, terms and commands associated with the AutoCAD system. Students will work with multiview, detail/assembly, exploded and pictorial assembly drawings. This class will involve becoming familiar with the materials and processes of the machine trades. All students will develop a complete set of prints (detail/assembly and pictorial assembly) for a jig or fixture and have them printed and plotted.

**250WH GRAPHIC ARTS I
(SOUTHGATE & WOODHAVEN)**

(Prerequisite: Junior or Senior status)

In the printing industry there are occupations which deal with all aspects in the development of printed material from an initial idea to the actual production. During this first year, students will spend one semester in a design and layout lab. Studies will include line drawing, design drawing, layout, paste-up, typesetting and photography. Students will also spend one semester in the production lab where they will be involved in binding, silk screen printing, offset printing, press operations, block printing and plate making.

**252WH GRAPHIC ARTS II
(SOUTHGATE & WOODHAVEN)**

(Prerequisite: Senior status and Graphic Arts I)

Students will spend an entire year in the production lab involved in press operation, contact printing, dark room activities, layout, design work, plate making, multiple color operations, digital photography, photo editing, web page design and digital video.

**910GI HEALTH OCCUPATIONS I
(GROSSE ILE, FLAT ROCK & HFWH)**

(Prerequisite: Junior or Senior status, Parent/Student orientation meeting, C or better in Algebra I, C or better in Biology or Chemistry, physical exam, TB test and immunization record)

This full year course will provide students with the basic theory and clinical experience for entry level positions in a physician's office, hospital or outpatient clinic. Students will participate in classroom learning consisting of both theory and hands-on demonstrations and practice, as well as have the opportunity to participate in internships/job shadow experiences with local health care professionals. The curriculum provided allows students to explore their interest in many fields within the medical profession, including but not limited to, nursing, medicine, advanced practice nursing, physician's assistant, laboratory science, emergency medical technology, radiology, surgical technology and nuclear medicine.

**912GI HEALTH OCCUPATIONS II
(GROSSE ILE)**

(Prerequisite: Health Occupations I and instructor approval)

This course will provide hands-on experience in specific health care fields. The students will be receiving advanced training and education. This goal is accomplished by externships which include rotations through many acute care areas, such as, but not limited to: Medical-surgical, Obstetrics, Intensive Care, and Dialysis units. Students must provide their own transportation to local hospitals.

**912FR HEALTH OCCUPATIONS II (PHARMACY TECH)
(FLAT ROCK)**

(Senior status, Health Occupations I, Health Occupations II application and approval of instructor)

This course will be a continuation of Health Occupations I with a focus on Pharmacy Technician training. Students will participate in classroom learning that will focus on pharmacy operations and the core responsibilities of a pharmacy technician. Topics such as medication review, dosage forms, drug interactions, pharmacy calculations, federal laws, and maintaining patient records will be covered. Students will have an opportunity to participate in internships/job shadow experiences with local pharmacy professionals.

**HEALTH OCCUPATIONS II (CNA)
(GROSSE ILE)**

(Prerequisites: Health Occupations I and Health Occupations II Application)

This year long course focuses on information and skills applicable to a person pursuing any health career. Information includes exploring the many careers in the health field, basic anatomy and physiology, first aid, communication skills, medical terminology, employability skills and understanding human behavior. Through a classroom laboratory experience and a clinical experience giving patient care in a local health care facility, students are able to learn the basic skills necessary to be employed in the health occupation field.

**HEALTH OCCUPATIONS II
(WYANDOTTE HOSPITAL)**

(Prerequisite: Grade 12, Health Occupations I and Health Occupations II Application)

This year long course operates entirely at Henry Ford-Wyandotte Hospital on a semester basis. Each student who takes part in the course will work weekdays for one semester. After proper instruction, each student will be expected to perform the tasks usually assigned to a nurse's assistant. Students must report to work in the proper attire, i.e. white uniform and white shoes. Upon completion of this course students should be prepared for nursing assistant work.

**350GB HEATING AND COOLING I
(CARLSON)**

(Prerequisite: Junior or Senior status)

This year long program is a job-entry preparation certificate in Heating, Ventilation and Cooling for residential service. The course provides theory and hands-on exposure to the basics of electricity, air conditioning, heating and refrigeration technology.

**352GB HEATING AND COOLING II
(CARLSON)**

(Prerequisites: Senior status, Heating and Cooling I)

This year long course is intended for the student who would like to take the next step into the advanced residential and light commercial heating and cooling industry. Entry level theory and hands-on experience are provided, as well as advanced courses in domestic heating systems and duct and sheet metal fabrication. Energy management, local codes and system design will be covered.

**450RV HOSPITALITY TECHNOLOGY I
(RIVERVIEW)**

(Prerequisite: Junior status)

Hospitality and Food Services is a two-year program that offers the opportunity to acquire skills to prepare students for a successful career entry or continuing education in the field of Food Service, Travel/Tourism and Lodging occupations. The course will emphasize computational skills and knowledge, problem solving, reasoning and decision-making skills, leadership skills and social and employability skills. Students will gain practical experience working in the preparation and service of the student-operated school cafeteria, The Pirates' Den. Various areas of restaurant work such as management, food management and handling, waiter/waitressing, baking and other duties are exposed throughout the year in a hands-on environment.

**452RV HOSPITALITY TECHNOLOGY II
(RIVERVIEW)**

(Prerequisite: Senior status, Hospitality Technology I)

This course builds and develops upon the skills learned in Hospitality I. The course will reinforce computational skills and knowledge, problem solving, reasoning and decision-making skills, leadership skills and social and employability skills. Students will gain practical experience working in the preparation and service of the student-operated school cafeteria, The Pirates' Den. This course raises the level of expectation for culinary skills, and incorporates the basic methods and techniques of cooking into the class. Skills such as production of soups, stocks and sauces, and methods of cooking such as sauté, broil, grill, deep-fry and poach are taught. Second year students are expected to set a tone and exemplify professionalism in the kitchen. Some students may be eligible for an internship school-to-work program where students work at an outside facility instead of coming to class in order to obtain insight and exposure to the industry. Those who finish the two-year program will receive a certificate of completion for their portfolio enhancement.

INFORMATION TECHNOLOGY: COMPUTER INFORMATION SYSTEM ADMINISTRATION (Prerequisites: (AIRPORT) Junior status and on course to graduate. Seniors may be admitted on a space-available basis.)

This course is a two-year DCTC program in partnership with Schoolcraft College. By the completion of the two-year program, students will have a Computer Information Systems Introductory Certificate and 28 credits toward an Associate's Degree at Schoolcraft College. This program prepares students for entry level positions supporting users of microcomputer components of the operating system. The Computer Information Systems Introductory Certificate introduces students to the operating system and concepts surrounding programming logic. Students must have a GPA of 2.0 or higher in core classes and attendance history must meet the standard of the sending school district.

850GI INTRODUCTION TO EDUCATION I (Prerequisites: Junior or Senior status, must attend orientation meeting with parent, immunization records, TB test and physical)
(GROSSE ILE)

This first year course introduces the unique characteristics of the child, develops respect for children, and guidance skills that help them grow and develop. Students will gain knowledge that enables them to decide whether working in the field of education is a suitable personal career goal. Students will also develop and show responsibility in work performance, learn how to study the growth and development of children, recognize the physical, social, emotional, and intellectual abilities and needs of children, understand how children learn and the importance of play in their development, as well as learn how parents and teachers influence the growth and development of children. Students will gain this knowledge through classroom work and field placement experiences in a preschool and elementary setting.

852GI INTRODUCTION TO EDUCATION II (Prerequisites: Senior status, Introduction to Education I)
(GROSSE ILE)

This second year course will introduce the unique characteristics of the teaching field through lesson planning, classroom management, technology and field placement experiences. Students will continue to learn about the field of education through observation and field experience.

MECHATRONICS (Prerequisites: Junior status and on course to graduate. Seniors may be admitted on a space-available basis. GPA of 2.0 or higher in core classes. Attendance history must meet the standard of the sending school district. Additional prerequisites may be required by Henry Ford College.)

Mechatronics is a two year program that combines both principles and skills from several areas vital to modern day manufacturing. Electrical, Mechanical, Fluid (Hydraulics and Pneumatics), Computer Control and Automation/Robotics systems are included in Mechatronics. Through a combination of classroom and intense laboratory exposures, students are prepared for entry into a range of career opportunities throughout the manufacturing, healthcare, architecture and other sectors of the economy.

In cooperation with Henry Ford College, the successful Mechatronics student will finish high school having completed 29 hours of undergraduate credit. Should a student choose to, they can complete an Associate's Degree at HFC within one year of high school graduation. Pathways to apprenticeships will also be available to those who qualify.

**190FR WELDING TECHNOLOGY I
(FLAT ROCK & WOODHAVEN)**

(Prerequisite: Junior status. Seniors may be admitted on a space-available basis)

This course specializes in lab work and shop experience concerned with all types of metal welding, brazing, and flame cutting.

**192FR WELDING TECHNOLOGY II
(FLAT ROCK & WOODHAVEN)**

(Prerequisites: Welding Technology I, Senior status)

This course covers advanced arc and oxyacetylene procedures with as much practical experience as possible. Instruction emphasizes the properties of metals, blueprint reading and welding symbols.